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INSECTS OF THE GALÁPAGOS ISLANDS¹

By

E. G. Linsley and R. L. Usinger

University of California, Berkeley

INTRODUCTION

When Charles Darwin visited the Galápagos Islands in September and October of 1835, he was impressed with the small size and dull colors of the insects he encountered, and of the insect fauna in general he commented that "excepting Tierra del Fuego, I never saw . . . so poor a country." G. R. Waterhouse, upon examining the insects which Darwin collected, reported that there was nothing in their appearance which would have led him to imagine that they had come from under the equator. Darwin described them as having a desert character, along with the plants and the birds.

Few entomologists who have visited the Archipelago would disagree with the generalization that the insect fauna is more desert than tropical in aspect, a fact in keeping with the arid nature of the islands, but tropical species are present, especially, but by no means exclusively, in the mangrove swamps along the shores and in the moist forests of middle elevations of the larger islands. The fauna is depauperate, as would be expected of oceanic islands populated by chance. For example, the continental British Isles have currently known more than three times as many families, ten times as many genera and thirty-two times as many species of insects as the Galápagos (table I). Although this differential will no doubt be reduced as the Galápagos fauna becomes better known, there is no reason to believe that it will ever be eliminated. However, although the fauna is poor in taxonomic entities, in favorable seasons it is rich in individuals, and the entomologists of the Galápagos International Expedition of 1964 brought back thousands of specimens.

In connection with our own studies we attempted to assemble as much as possible of the literature relevant to Galápagos insects prior to the Expedition, and to organize it in a systematic manner upon our return. The result gave us,

¹ Contribution No. 27 from the Charles Darwin Foundation for the Galápagos Islands.

TABLE I *Comparison of recorded insect fauna of the Galápagos Archipelago with that of the British Isles.*

<i>Insect Orders</i>	<i>Galápagos Archipelago</i>			<i>British Isles*</i>		
	<i>Families</i>	<i>Genera</i>	<i>Species</i>	<i>Families</i>	<i>Genera</i>	<i>Species</i>
Collembola	2	2	2	9	62	261
Protura	—	—	—	2	4	17
Thysanura	1	2	2	2	6	11
Diplura	1	1	1	1	1	12
Orthoptera	3	11	18	5	27	38
Blattaria	1	7	9	4	5	8
Mantodea	1	1	1	—	—	—
Dermaptera	1	2	2	3	7	9
Phasmida	—	—	—	—	—	—
Isoptera	2	2	6	—	—	—
Embioptera	—	—	—	—	—	—
Plecoptera	—	—	—	6	15	32
Odonata	3	6	7	9	21	42
Ephemera	—	—	—	8	19	46
Corrodentia	—	—	—	11	33	68
Mallophaga	2	25	61	7	58	252
Anoplura	1	2	2	4	15	34
Thysanoptera	—	—	—	3	42	183
Hemiptera	14	34	41	30	221	499
Homoptera	3	27	38	19	252	912
Megaloptera	—	—	—	2	3	6
Neuroptera	3	4	6	5	18	54
Coleoptera	39	107	192	80	947	3,690
Strepsiptera	—	—	—	4	5	17
Mecoptera	—	—	—	2	2	4
Trichoptera	—	—	—	13	70	188
Lepidoptera	16	71	97	64	657	2,187
Diptera	27	68	102	75	1,132	5,199
Siphonaptera	—	—	—	5	24	47
Hymenoptera	9	23	31	52	1,071	6,191
TOTALS	129	395	618	425	4,717	20,007

* From Kloet, G. S., and W. D. Hincks, 1945, *A Check List of British Insects*. 483 pp. Stockport, England.

hopefully, a fairly complete list of the insects which have been reported from the Islands and a partially annotated bibliography of Galápagos entomology. We have been encouraged by entomologists interested in the Galápagos to publish this material, even though we realize that it is incomplete and has some obvious deficiencies. Among the latter are the fact that we have passed no independent taxonomic judgment on the validity of published records and unless we were aware of subsequent revisions, or unless the specialists who have so kindly examined our list have independently evaluated the references, with few exceptions they appear in the form in which they were treated in the most recent Galápagos publication. Nevertheless, we hope that our provisional faunal list

and provisional bibliography will be useful, and it is in this spirit that we offer it, whatever its shortcomings.

ACKNOWLEDGMENTS

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ECUADORIAN NAMES OF GALÁPAGOS ISLANDS WITH THEIR ENGLISH SYNONYMS

Balra = South Seymour
 Chávez = Santa Cruz = Indefatigable
 Española = Hood
 Fernandina = Narborough
 Floreana = Santa María = Charles
 Genovesa = Tower
 Isabela = Albemarle
 Marchena = Bindloe
 Pinzón = Duncan
 Pinta = Abingdon
 Rábida = Jervis
 San Cristóbal = Chatham
 Santa Cruz = Chávez = Indefatigable
 Santa Fé = Barrington
 Santa María = Floreana = Charles
 Santiago = James

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A BRIEF HISTORY OF ENTOMOLOGICAL EXPLORATION IN THE GALÁPAGOS ISLANDS

Charles Darwin collected the first specimens of insects in the Galápagos Islands for scientific purposes. A surprising number of others have followed him in the 130 years since the *Beagle's* visit in 1835. We realize that the following list is incomplete, but it is offered mainly as an aid in locating collections of Galápagos insects and in finding detailed accounts of entomological work, islands visited, collecting, dates, field notes, etc. In some cases the information

presented was difficult to find, and we hope that the list may save others unnecessary searching of the literature.

The general pattern of presentation is: first a list of individual collectors, in chronological order, followed by a list of expeditions, also in chronological order. In each case, where known, the name of the collector (or expedition and vessel) is given, then the dates and islands visited. Usually the place of publication of entomological results is indicated by reference to the bibliography or by mention of the most important journal articles or book. The best general account for each expedition is also cited, as is the current location of Galápagos collections. The information presented is as complete as we could make it up to the time of the Galápagos International Scientific Project (January, 1964).

INDIVIDUAL COLLECTORS

- HABEL, SIMEON—July 22, 1868 to January 1, 1869. New York. Hood, Floreana, Santa Cruz, Isabela, Bindloe, and Abingdon islands. *General Account*: Habel, in Salvin, O. 1876. On the Avifauna of the Galápagos Archipelago. Trans. Zool. Soc. London, vol. 9, pp. 447–510.
- BAUR, GEORGE—June 9–September 6, 1891. Clark University, Worcester, Connecticut. Albemarle, Bindloe, Barrington, Charles, Chatham, Duncan, Hood, Indefatigable, James, Jervis, and Tower islands. Collected a dragonfly nymph reported by Asahina 1961, p. 1. *General Account*: 1892. Ein Besuch der Galápagos Inseln. Biologisches Centralblatt, vol. 12, pp. 221–250.
- GERSCH, KARL—February–April, 1932. San Cristóbal and Santa Cruz islands. *Publication*: Campos, F. (1932).
- WITTMER, H.—1934. Floreana Island. *Publication*: Richards (1941). *Collection*: Hancock Foundation, University of Southern California.
- CONWAY, E. A.—1939. Floreana Island. *Publication*: Richards (1941). *Collection*: Hancock Foundation, University of Southern California.
- VINTON, K. W.—July and August, 1948. Balboa High School. Canal Zone. *Specimens*: U. S. National Museum. *Publication*: Wheeler, M. R. (1961). Some Drosophilidae (Diptera) from the Galápagos Islands. Ann. Ent. Soc. Amer., vol. 54, pp. 750–751.
- FÖRSTER, JUAN—March, April, May, 1959. San Cristóbal, Floreana, and Santa Cruz islands. *Collection*: Zool. Sammlgn. Bayerischen Staates, München. *Publication*: Kernbach (1962).
- SEKIGUCHI, KOICHI—December—January, 1959–1960. Floreana and San Cristóbal islands. *Publication*: Asahina (1961).

GALÁPAGOS EXPEDITIONS

- Voyage of the Beagle.** Charles Darwin. H.M.S. *Beagle*. September 16 to October 19, 1835. Chatham, Charles, Albemarle, and James islands. *Re-*

sults published: Butler, *et al.* 1877; Walker, 1848–1873, etc. *Insect collections:* British Museum (Natural History). *General account:* Darwin, C. 1839. Narrative of the surveying voyages of His Majesty's ships *Adventure* and *Beagle*, between the years 1826 and 1836, describing their examination of the southern shores of South America, and the *Beagle's* circumnavigation of the globe. London, Henry Colburn. Vol. III. Journal and Remarks. 1832–1836. pp. xiv + 629, maps. Darwin, C. 1845. Journal of researches into the natural history and geology of the countries visited during the voyage of H.M.S. *Beagle* round the world, under the command of Capt. FitzRoy, R.N. 2d ed. London, John Murray, pp. viii + 519, 12 figs.

Kongliga Svenska Fregatten Eugénies Resa Omkring Jorden under befäl af C. A. Virgin, Åren 1851–3. (Royal Swedish frigate *Eugenie* voyage around the world under the command of C. A. Virgin, years 1851–3). Eugénie. Dr. J. G. M. Kinberg. May 9, 1852 to May 20, 1852. Chatham, Indefatigable, Charles, James, Albemarle islands. *Results published:* Svenska Vetenskaps-academien, Stockholm. *Insect collections:* Naturhistoriska Riksmuseum, Stockholm. *General account:* Skogman, C. 1854–1855. Fregatten Eugénies Resa Omkring Jorden Åren 1851–1853, under befäl of C. A. Virgin. Stockholm, Adolf Bonnier, Förra Delen. pp. vi + 250; sednare delen, pp. v + 224, col. pls. maps, and text figs.

“Agassiz Expedition.” Alexander Agassiz. Steamer *Hassler*. June 10, 1873 to June 20, 1873. Charles, Albemarle, James, Jervis, and Indefatigable islands. *Insect collections:* Museum of Comparative Zoology, Harvard. *General account:* Elizabeth Agassiz, “A cruise through the Galapagos.” *Atlantic Monthly*, 1873 (May), pp. 579–584.

Voyage of the Peterel. Commander W. E. Cookson. H.M.S. *Peterel*. June 1875. Abingdon, Charles, and Albemarle islands. *Results published:* Proc. Zool. Soc. Lond. 1877. *General account:* Gunther, A. 1877. “Account of the zoological collection made during the visit of H.M.S. “Peterel” to the Galapagos Islands.” Proc. Zool. Soc. Lond., pp. 64–91.

“Albatross” Expedition—1888. (U. S. Fish Commission). Leslie A. Lee, Charles H. Townsend. Steamer *Albatross*. April 4 to 16, 1888. Chatham, Hood, Gardner, Albemarle, James, Duncan, Indefatigable, and Abingdon islands. *Results published:* Proc. U. S. National Museum, vol. XII, 1889. *Insect collections:* U. S. National Museum. *General account:* Howard, L. O. 1890. Scientific results of explorations by the U. S. Fish Commission Steamer *Albatross*. No. V. Annotated catalogue of the insects collected in 1887–88. Proc. U. S. National Museum, vol. 12, pp. 185–207.

“Albatross” Expedition—1891. (U. S. Fish Commission). Alexander Agassiz. Steamer *Albatross*. March 28–April 4, 1891. Chatham, Charles, Duncan,

- James, Hood, and Albemarle islands. *Results published*: Bulletin Museum of Comparative Zoology, vol. 23, p. 25. *General account*: Agassiz, Alexander. 1892. Reports on the dredging operations off the west coast of Central America to the Galápagos to the west coast of Mexico, and in the Gulf of California in charge of Alexander Agassiz, carried on by the U. S. Fish Commission Steamer "Albatross," Lieut. Commander Z. L. Tanner, U.S.N., Commanding. II. General sketch of the expedition of the "Albatross," from February to May, 1891. Bull. Mus. Comp. Zool., 23:1-89, 22 pls. (insects, pp. 68-69). Scudder, S. H. 1893. No. 1. Reports on the dredging operations off the west coast of Central America to the Galápagos . . . VII. The Orthoptera of the Galápagos Islands. Bull. Mus. Comp. Zool., vol. 25, pp. 1-25, 3 pls.
- Hopkins Stanford Galápagos Expedition, 1898-1899.** R. E. Snodgrass and Edmund Heller. Schooner *Julia E. Whalen*. December 8, 1898 to June 23, 1899. Visited all large and many small islands. *Results published*: Proc. Washington Academy of Sciences, vols. 4 and 5. *Insect collections*: Stanford University; mostly destroyed. *General account*: Proc. Wash. Acad. Sci., vol. 3, pp. 363-364, 1901.
- California Academy of Sciences Expedition.** F. X. Williams. Schooner *Academy*. Sept. 24, 1905 to Sept. 25, 1906. Visited all the islands. *Results*: Proc. Calif. Acad. Sci. *Insect collections*: Calif. Acad. Sci., San Francisco. *General account*: Slevin, J. R. 1931. Log of the schooner *Academy*, on a voyage of scientific research to the Galápagos Islands, 1905-1906. Occ. papers, Calif. Acad. Sci., no. 17, 162 pp.
- Harrison Williams Galápagos Expedition.** Wm. Beebe and Wm. Morton Wheeler. Yacht *Noma*. March 28, 1923, for 21 days (100 hours on land). San Cristóbal, Santa Cruz, Santiago, Isabela, and Tower islands. *Results*: Zoologica—New York Zoological Society and "Galapagos, World's End." *Insect collections*: American Museum of Natural History. *General account*: Beebe, Wm. 1923. Williams Galapagos Expedition, Zoologica, vol. 5, no. 1, pp. 1-20, figs. and maps.
- St. George Expedition.** C. L. Collenette, Cynthia Longfield, E. Cheesman. Steam Yacht *St. George*. July 24, 1924—arrived. James, Indefatigable, Eden, Charles, Albemarle, and Narborough islands. *General account*: Collenette, C. L. 1925. Sea Girt Jungles. London, pp. 72-116.
- Arcturus Oceanographic Expedition, 1925.** Wm. Beebe. Steam Yacht *Arcturus*. April 4 to April 28, 1925. South Seymour, Albemarle, Tower, and Hood islands. *Results published*: Zoologica, vols. 7 and 8. Beebe, Wm.

1926. *Zoologica*, vol. 8, pp. 1-45. *General account*: Beebe, Wm. 1926. "Arcturus Adventure" with "Log of the Arcturus." Also Beebe, Wm. 1925. "Logging the Arcturus, a visit to the Galápagos." *Bull. N. Y. Zool. Soc.*, no. 4, July, pp. 103-116; *N. Y. Zool. Soc.*, vol. 28, pp. 119-129.

The Norwegian Zoological Expedition. 1925. Alf Wollebaek. Cutter *Mon-sunen*. August to December, 1925. Floreana, Chatham, and Santa Cruz islands. *Results published*: *Med. Zool. Mus.*, Oslo. *Insect collections*: Zoologiske Museum, Oslo. *General account*: Mielche, Hakon, 1938. Let's see if the world is round. London, 330 pp.

Cornelius Crane Pacific Expedition (Field Museum of Natural History, Chicago). Karl P. Schmidt. Brigantine Yacht *Illyria*. January 6, 1929-January 16, 1929. Albemarle, Narborough, Indefatigable, S. Seymour, Eden, and Charles islands. *Collections*: Chicago Museum of Natural History. *Results*: Publ. Field Museum, Zool. Series under heading: Scientific results of the Crane Pacific Expedition. *General account*: Shurcliff, S. N. 1930. *Jungle Islands. The "Illyria" in the South Seas*. New York, G. P. Putnam's Sons, pp. xv + 298, illus.

Gifford Pinchot Expedition. Dr. A. K. Fisher. Yacht *Mary Pinchot*. June and July, 1929 (5 weeks). Chatham, Charles, Albemarle, Tower, Indefatigable, Seymour, Duncan, Hood, Daphne Major, Barrington, and Narborough islands. *Collections*: U. S. National Museum. *General account*: Pinchot, G. 1929. "To the South Seas, the cruise of the Mary Pinchot to the Galápagos, the Marquesas, and the Tuamotu islands, and Tahiti. Philadelphia, The John C. Winston Co., xiii + 500 pp., 1 plate.

Vincent Astor Expedition. C. H. Townsend, Kermit Roosevelt, and Henry K. Svenson. *Nourmahal*. March 31 to April 15, 1930. Indefatigable, Albemarle, Tower, and Charles islands. *General account*: Townsend, C. H. 1930. *The Astor Expedition to the Galápagos Islands*. *Bull. N. Y. Zoological Society*, vol. 33, pp. 135-172.

Hancock Galápagos Expeditions. J. S. Garth. R/V *Velcro III*. 1. December 31, 1931 to January 24, 1932. Chatham, Charles, Albemarle, James, Indefatigable, S. Seymour, and Tower islands. 2. January 24, 1933 to February 26, 1933. Hood, Charles, Chatham, Barrington, Indefatigable, Albemarle, James, Duncan, S. Seymour, Abingdon, and Tower islands. 3. January 11 to January 31, 1934. Wenman, Albemarle, Narborough, Charles, Indefatigable, Chatham, S. Seymour, James, and Hood islands. 4. December 2, 1934 to December 19, 1934. Bindloe, Charles, Indefatigable, Albemarle, James, S. Seymour, Chatham, and Hood islands. 5. January 16 to January

- 30, 1938. Tower, Chatham, S. Seymour, James, Albemarle, Charles, Indefatigable, and Hood islands. *Results published*: Richards, A. G., Jr. The noctuid moths of the Galapagos from the collections of the Allan Hancock Foundation. Report of the Allan Hancock Pacific Exped., vol. 5, pp. 233–251, 4 pls. *General account*: Fraser, C. McLean. 1943. Allan Hancock Pacific Exped., vol. 1, 445 pp., 115 charts, 128 pls.
- Templeton Crocker Expedition of the California Academy of Sciences.** Mr. Maurice Willows. Schooner *Zaca*. April 15 to June 16, 1932. Thirteen islands including all main islands. *Results*: Proc. Calif. Acad. Sci., series 4, vols. 21 and 22. *Insect collections*: California Academy of Sciences. *General account*: Crocker, Templeton. 1933. The Templeton Crocker Expedition of the California Academy of Sciences, 1932. No. 2. Introductory statement. Proc. Calif. Acad. Sci., ser. 4, vol. 21, no. 2, pp. 3–9, 1 pl.
- Templeton Crocker Expedition to Polynesia in 1934–35.** Templeton Crocker. Schooner *Zaca*. March 9–25, 1935. Albemarle, Tower, and Santa Cruz islands. *Results*: Proc. Calif. Acad. Sci., ser. 4, vols. 21 and 22. *Insect collections*: American Museum of Natural History and (Hemiptera) Calif. Acad. Sciences. *General account*: Van Duzee, E. P. 1937. No. 33. The Hemiptera of the Templeton Crocker Expedition to Polynesia in 1934–1935. Proc. Calif. Acad. Sci., ser. 4, vol. 22, pp. 111–126. See also: Chapin, J. P. 1936. Jour. Amer. Mus. Nat. Hist., vol. 37, pp. 31–38.
- Darwin Memorial Expedition.** Wolfgang Von Hagen. September 1935 to February 1936. Chatham, Santa Cruz, Barrington, Hood, Seymour, Duncan, Jervis, James, Abingdon, and Albemarle islands. *Insect collections*: Termites. American Museum of Natural History? *General accounts*: 1. Von Hagen, Victor Wolfgang, 1940. Ecuador the Unknown. Two and a half years' travels in the Republic of Ecuador and the Galápagos Islands. New York, Oxford Univ. Press, 296 pp., many plates. 2. Von Hagen, Victor Wolfgang, 1949. Ecuador and the Galápagos Islands. Norman, Oklahoma, Univ. of Oklahoma Press, 290 pp., plates and maps.
- Hans Hass Expedition.** Irenäus Eibl-Eibesfeldt. Yacht *Xarifa*. November, 1953 to January, 1954. Tower, Santa Cruz, Hood, Narborough, Albemarle, Barrington, San Cristóbal, and Floreana islands. *Specimens*: Senckenberg Museum. *General account*: I. Eibl-Eibesfeldt, 1961. Galápagos, The Noah's Ark of the Pacific (Transl. by A. H. Brodrick). New York, Doubleday and Company, Inc. 192 pp. 21 plates, 4 colored.
- Deutschen Galápagos-Expedition. 1962/63.** Eberhard Curio. December, 1962–1963. Santa Cruz, Isabela, Fernandina, Wenman, Abingdon, Tower and Hood. *Publication*: Curio, E., 1964. Über das Nächtigen von *Nocticanace galapagensis* Curran. Zeit. für Tierpsychologie, Band 21, Heft 7, pp. 794–797.

INSECTS RECORDED FROM THE GALÁPAGOS ISLANDS

Order COLLEMBOLA

Family ENTOMOBRYIDAE

Genus *Lepidocyrtus*

intermixtus Folsom, 1924, *Zoologica*, vol. 5, p. 75, Baltra
pl. 5, figs. 27-29.

Family NEANURIDAE

Genus *Anurida*

maritima Guérin, 1836, *Icon. règne animal de Cuvier*, Floreana
vol. 7, no. 3, p. 11 (*Achorutes*).

Order THYSANURA

Principal references to Galápagos fauna: Banks (1901), Folsom (1924),
Stach (1932), Paclt (1959).

Family LEPISMATIDAE

Genus *Heterolepisma*

insulare Banks, 1901, *Proc. Washington Acad. Sci.*, Genovesa, Fernandina,
vol. 3, p. 543, figs. 51-52 (*Lepisma*).
intermedia Folsom, 1924, *Zoologica*, vol. 5, p. 67, Baltra, Floreana
pl. 3, figs. 1-8.

Genus *Stylifera*

galapagoensis Banks, 1901, *Proc. Washington Acad. Sci.*, vol. 3, p. 541, figs. 47-50 (*Lepisma*).
Santiago, Pinzón,
Daphne Major, Santa
Cruz, Baltra, Flore-
ana, Española

Order DIPLURA

Family CAMPODEIDAE

Genus *Lepidocampa*

juradoi seclusa Condé, 1960, *Bull. Mus. Nat. Hist.* Santa Cruz
Paris, ser. 2, vol. 32, p. 172.

Order ORTHOPTERA

The principal references for the Galápagos Islands are Butler (1877), Scudder (1893), McNeill (1901), Snodgrass (1902), Hebard (1920), and Caudell (1932). The treatments of *Sphingonotus* and *Schistocerca* by Snodgrass (1902) are followed rather than those of Hebard (who synonymized most subspecies) because Snodgrass was familiar with the insects in the field. Also, McNeill's (1901) treatment of *Liparoscelis* is adopted in preference to Hebard (1920). The list was reviewed for overall classification but not for completeness of Galápagos references by Grant (personal communication).

Family ACRIDIDAE

Genus *Closteridea*

bauri Scudder, 1893, Bull. Mus. Comp. Zool., vol. 25, p. 9, figs. Isabela, San Cristóbal

Genus *Sphingonotus*

tetranesiotis Snodgrass, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 444 (synonym of *fuscoirroratus* Stål, *vide* Hebard, 1920).

subsp. *tetranesiotis* Snodgrass, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 444 (as var. *charlesensis*). Floreana

fuscoirrorata Stål. 1860, Freg. Eugenes Resa, Zool. 1, Ins. p. 345 (type locality first restricted to Puna I., Ecuador, by Snodgrass).

subsp. *barringtonensis* Snodgrass, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 445 (as variety) Santa Fé

subsp. *hoodensis* Snodgrass, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 446 (as variety) Española

subsp. *indefatigabilensis* Snodgrass, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 447 (as variety) Santa Cruz, Seymour

trinesiotis Snodgrass, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 439 (synonym of *fuscoirroratus* Stål, *vide* Hebard, 1920).

subsp. *trinesiotis* Snodgrass, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 439 (as var. *chathamensis*). San Cristóbal

subsp. *indefatigabilensis* Snodgrass, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 441 (as variety) Seymour, Santa Cruz

subsp. *albemarlensis* Snodgrass, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 443 (as variety) Isabela

Genus *Schistocerca*

intermedia Snodgrass, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 431. Pinzón

literosa Walker, 1870, Cat. Derm. Salt. Brit. Mus., vol. 4, p. 620.

subsp. *literosa* Walker, 1870, Cat. Derm. Salt. San Cristóbal

Brit. Mus., vol. 4, p. 620.

discoidalis Scudder, 1893, Bull. Mus. Comp. Zool., vol. 25, p. 16 (as subspecies).

subsp. *hyalina* Scudder, 1893, Bull. Mus. Comp. Zool., vol. 25, p. 16. Genovesa

subsp. *punctata* Scudder, 1893, Bull. Mus. Comp. Zool., vol. 25, p. 16. Española

melanocera Stål, 1861, Freg. Eugenies Resa, Zool. 1, Ins. p. 326 (*Acridium*) (all subspecies synonymized by Hebard, 1920). Genovesa

subsp. *immaculata* Snodgrass, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 223 (as variety) Santa Cruz, Baltra

subsp. *lineata* Snodgrass, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 423 (as variety) Isabela

subsp. *melanocera* Stål, 1861, Freg. Eugenies Resa, Zool. 1, Ins., p. 326. Floreana

subsp. *minor* Snodgrass, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 421 (as variety) Isabela

subsp. *pallida* Snodgrass, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 422 (as variety) Santa Fé

Genus *Halmenus*

eschatus Hebard, 1920, Proc. Calif. Acad. Sci., ser. 4, vol. 2, no. 2, p. 329. Wenman I.

robustus Scudder, 1893, Bull. Mus. Comp. Zool., vol. 25, p. 18.

subsp. *choristopterus* Snodgrass, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 450 (as species). Floreana

subsp. *cuspidatus* Snodgrass, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 450 (as species). Isabela

subsp. *robustus* Scudder, 1893, Bull. Mus. Comp. Zool., vol. 25, p. 18. Santa Cruz, Santiago

Family TETTIGONIIDÆ

Genus *Anaulocomera*

darwinii Scudder, 1893, Bull. Mus. Comp. Zool., vol. 25, p. 19, figs. San Cristóbal, Santa Cruz

Genus *Liparoscelis*

cooksonii Butler, 1877, Proc. Zool. Soc. London, p. Floreana, Isabela,

- 87 (*Agracchia*).
cooksoni ensifer McNeill, 1901, Proc. Wash. Acad. Sci., vol. 3, p. 498, fig. 39 (synon. *fide* Hebard, 1920). Genovesa Hood, Santa Cruz
- pallidus** McNeill, 1901, Proc. Wash. Acad. Sci., vol. 3, p. 500, fig. 41 (synon. *fide* Hebard, 1920). Barrington
- paludicola** McNeill, 1901, Proc. Wash. Acad. Sci., vol. 3, p. 499, fig. 40 (synon. *fide* Hebard, 1920). Isabela
- Genus **Conocephalus**
- exitiosus** McNeill, 1901, Proc. Wash. Acad. Sci., vol. 3, p. 501, fig. 42 (*Xiphidium*). Santa Cruz, Santiago
- Genus **Neoconocephalus**
- triops** Linnaeus, 1758, Systema Naturae, Ed. 10, p. 430 (*Gryllus-Tettigonia*). San Cristóbal
- insulanus** Scudder (not Redtenbacher), 1893, Bull. Mus. Comp. Zool., vol. 25, p. 21, pl. III, figs. 2, 3 (*Conocephalus*).
- insularum** Karny, 1907, Revisio Conocephalidarum, p. 38 (*Conocephalus*).

Family GRYLLIDAE

Genus **Cryptoptilum**

- erraticum** Scudder, 1893, Bull. Mus. Comp. Zool., vol. 25, p. 23, pl. III, figs. 6, 7 (*Cycloptilum*). Floreana, Isabela, Hood, Abingdon
- lepismoide** McNeill, 1901, Proc. Wash. Acad. Sci., vol. 3, p. 505 (*Cycloptilum*). Isabela, Genovesa

Genus **Hygronemobius**

- speculi** McNeill, 1901, Proc. Wash. Acad. Sci., vol. 3, p. 503, figs. 43, 44 (*Nemobius*). Isabela

Genus **Gryllus**

- assimilis** Fabricius, 1775, Syst. Ent., p. 280 (*Acheta*). Isabela, Floreana,
galapageius Scudder, 1893, Bull. Mus. Comp. Zool., vol. 25, p. 22, pl. III, fig. 8. San Cristóbal, Santa Cruz, Hood

Order BLATTARIA

Family BLATTIDAE

Genus **Anisopygia**

- snodgrassii** McNeill, 1901, Proc. Wash. Acad. Sci., vol. 3, p. 493, figs. 35-37 (*Temnopteryx*). Isabela

Genus **Blattella**

- germanica** Linnaeus, 1767, Systema Naturae, Ed. 12, p. 668 (*Blatta*). Hood

Genus *Symphloe*

lita Hebard, 1916, Trans. Am. Ent. Soc., vol. 42, p. 354, figs. San Cristóbal

Genus *Leurolestes*

pallidus Brunner, 1865, Nouv. Syst. Blatt., p. 286 San Cristóbal
(*Nauphoeta*).

Genus *Periplaneta*

americana Linnaeus, 1758, Systema Naturae, ed. 10, pp. 1:424 (*Blatta*). Floreana, San Cristóbal

australasiae Fabricius, 1775, Syst. Ent., p. 271 San Cristóbal,
(*Blatta*). Floreana

brunnea Burmeister, 1838, Handb. Ent. 2; Abt. 2, pt. 1, p. 503. San Cristóbal

Genus *Pycnoscelus*

surinamensis Linnaeus, 1767, Systema Naturae, Ed. 12, p. 687 (*Blatta*). Isabela, San Cristóbal,
Floreana

Genus *Nauphoeta*

cinerea Olivier, 1789, Encycl. Method., Ins., vol. 4, p. 314 (*Blatta*). San Cristóbal,
Floreana

circumvagans Scudder (not Burmeister), 1893, Bull. Mus. Comp. Zool., vol. 25, p. 7.

Order MANTODEA

Family MANTIDAE

Genus *Galapagia*

solitaria Scudder, 1893, Bull. Mus. Comp. Zool., vol. 25, p. 8, figs. Isabela, Floreana,
Seymour

Order DERMAPTERA

Family FORFICULIDAE

Genus *Anisolabis*

bormansi Scudder, 1893, Bull. Mus. Comp. Zool., vol. 25, p. 5. San Cristóbal

Genus *Euborellia*

annulipes Lucas, 1847, Bull. Soc. Ent. France, ser. 2, vol. 5, p. lxxxiv (*Forficula*). Isabela, San Cristóbal

Order ISOPTERA

Primary references for the Galápagos are Banks (1901) and Light (1935).

Family KALOTERMITIDAE

Genus *Kalotermes*

darwini Light, 1935, Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 242, pl. 9, figs. 1, 2, 7, 8 (subg. *Cryptotermes*). Santiago, Santa Cruz,
Gardner, Floreana

- galapagoensis* Banks, 1901, Proc. Wash. Acad. Sci., vol. 3, p. 544, figs. 55, 56 (*Calotermes*). Wenman, Genovesa
- immigrans* Snyder, 1922, Proc. U. S. Nat. Mus., vol. 61, no. 20, pp. 2-4. (*Kalotermes* s. str.). Fernandina, Santiago, Rábida, Santa Cruz, Baltra, San Cristóbal, Isabela, Genovesa
- fatulus* Light, 1935, Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 245, pl. 9, figs. 4, 6 (subg. *Cryptotermes*). Isabela, Santiago
- pacificus* Banks, 1901, Proc. Wash. Acad. Sci., vol. 3, p. 555, fig. 57 (*Calotermes*). Fernandina, Baltra, Isabela, Santiago

Family RHINOTERMITIDAE

Genus **Heterotermes**

- orthognathus* Light, 1933, Univ. Calif. Publ. Entom., vol. 6, p. 113. Santa Cruz

Order ODONATA

The principal references are Currie (1901), Calvert (1901-08), and Asahina (1961). The list was checked by Lieftinck (personal communication).

Family COENAGRIONIDAE

Genus **Anomalagrion**

- hastatum* Say, 1839, Jour. Acad. Nat. Sci. Philadelphia, vol. 8, p. 38 (*Agrion*). San Cristóbal, Isabela

Family AESHNIDAE

Genus **Aeshna**

- galapagoensis* Currie, 1901, Proc. Wash. Acad. Sci., vol. 3, p. 382, figs. 29, 30. San Cristóbal, Isabela

Genus **Anax**

- amazili* Burmeister, 1839, Handb. d. Ent., vol. 2, p. 841 (*Aeschna*). San Cristóbal, Floreana

Family LIBELLULIDAE

Genus **Pantala**

- flavescens* Fabricius, 1798, Ent. Syst. Suppl., p. 285 (*Libellula*). Santa Cruz, Baltra, Floreana
- hymenaea* Say, 1839, Jour. Acad. Nat. Sci. Philadelphia, vol. 8, p. 18 (*Libellula*). Floreana

Genus **Tramea**

- cophysa darwini* Kirby, 1889, Trans. Zool. Soc. London, vol. 12, p. 315, pl. 51, fig. 1. Isabela, Floreana, San Cristóbal, Española

Genus **Cannacria**

- fumipennis* Currie, 1901, Proc. Wash. Acad. Sci., vol. 3, p. 387, figs. 31-34. Isabela

Order MALLOPHAGA

The principal references to Galápagos species are Kellogg and Kuwana (1902), Kellogg (1906), and Ewing (1924). Dr. Theresa Clay has kindly reviewed the manuscript and checked or corrected many of the names after studying types and other specimens in the Kellogg collection. Mr. B. C. Nelson assisted Dr. Clay by locating Galápagos slides in the Kellogg collection at Berkeley and sending them to London. New synonymy and confirmed or corrected identifications by Dr. Clay are marked with an asterisk [*]. The synonymy of *Actornithophilus milleri* is from Timmermann (1954), and generic placement of *Philopterus domesticus* and *P. insulicola* is by Carriker (1957). *Menopon rusticum*, Kellogg, 1896 (not Giebel, 1874), is a *Colpocephalum* (Clay, *in litt.*). For interpretation of the species of *Brucclia* see Hopkins (1951). Synonymy of *Nirmus curvilineatus* Kellogg & Kuwana is given by Clay (1958), that of *Lipeurus limitatus* (*Halipeurus*) by Edwards (1961), and that of *Docophorus perstrictus* by Ward (1953).

Suborder AMBLYCERA

Family MENOPONIDAE

Genus *Actornithophilus*

- grandiceps** Piaget, 1880, *Pédiculines*, p. 558, pl. 46, Santa Cruz
fig. 7 (*Colpocephalum*)*
- incisus** Piaget, 1880, *Pédiculines*, p. 569, pl. 47, fig. Wolf, Marchena,
9 (*Colpocephalum*)
funcbris Kellogg, 1906 (not Kellogg, 1896), Fernandina, Isabela,
Trans. Amer. Ent. Soc., vol. 32, p. 320 Daphne, Baltra
(*Colpocephalum*)*
- milleri* Kellogg & Kuwana, 1902, Proc. Wash.
Acad. Sci., vol. 4, p. 483, pl. 30, fig. 6
(*Colpocephalum*)*

Genus *Austromenopon*

- albemarlei** Kellogg & Kuwana, 1902, Proc. Wash. Isabela
Acad. Sci., vol. 4, p. 488, pl. 31, fig. 5 (*Menopon*)
- becki** Kellogg, 1906, Trans. Amer. Ent. Soc., vol. 32, Daphne
p. 322 (*Menopon*)*
- narboroughi** Kellogg & Kuwana, 1902, Proc. Wash. Darwin, Marchena,
Acad. Sci., vol. 4, p. 485, pl. 31, fig. 2 (*Menopon*). Fernandina, Baltra
numerosum Kellogg, 1906 (not Kellogg, 1896),
Trans. Amer. Ent. Soc., vol. 32, p. 321
(*Menopon*)*
- navigans** Kellogg, 1896, Proc. Calif. Acad. Sci., ser. Galápagos Islands
2, vol. 6, p. 156, pl. 14, figs. 4, 5 (*Menopon*)

Genus *Colpocephalum*

- flavescens* Haan, 1829, Mem. Mus. Hist. Nat. Paris, vol. 18, p. 309 (*Liotheum*). Wolf, Santa Cruz
- heterosoma* Piaget, 1880, Pédiculines, p. 572, pl. 48, figs. 3, 4.* Santa Cruz
- spineum* Kellogg, 1899, Occ. Pap. Calif. Acad. Sci., no. 6, p. 38, pl. 4, fig. 1.* Wolf, Isabela
- unciferum* Kellogg, 1896, Proc. Calif. Acad. Sci., ser. 2, vol. 6, p. 140, pl. 12, figs. 1-3. Galápagos Islands

Genus *Cuculphilus*

- snodgrassi* Kellogg & Kuwana, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 486, pl. 31, fig. 3 (*Menopon*). San Cristóbal.
Española
- galapagensis* Kellogg & Kuwana, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 487, pl. 31, fig. 4 (*Menopon*).

Genus *Eidmanniella*

- aurifasciata* Kellogg, 1899, Occ. Pap. Calif. Acad. Sci., vol. 6, p. 43, pl. 4, fig. 5 (*Menopon*). Wolf, Marchena,
Daphne, Baltra, Santa Cruz
- fuscofasciatum* Kellogg, 1906 (not Piaget, 1880), Trans. Amer. Ent. Soc., vol. 32, p. 321.* Cruz
- singularis* Kellogg & Kuwana, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 485, pl. 31, fig. 1 (*Menopon*).* Wolf

Genus *Myrsidea*

- incerta* Kellogg, 1896, Proc. Calif. Acad. Sci., ser. 2, vol. 6, p. 553, pl. 73, fig. 2 (*Menopon*). Wolf, Marchena,
Fernandina, Isabela,
Santiago, Santa Cruz,
Santa Fé, San Cristóbal, Española

Genus *Trinoton*

- litturatum* Burmeister, 1838, Handbuch Ent., vol. 2, p. 441 (*Trinotum*). Santa Cruz
- querquedulae* Linnaeus, 1758, Systema Naturae, Ed. 10, p. 612 (*Pediculus*). Santa Cruz
- luridum* Kellogg, 1906 (not Burmeister, 1838), Trans. Amer. Ent. Soc., vol. 32, p. 320.*

Family RICINIDAE

Genus *Ricinus*

- angulatus* Kellogg, 1896, Proc. Calif. Acad. Sci., ser. 2, vol. 6, p. 515, pl. 70, fig. 5 (*Physostomum*). Fernandina

Suborder ISCHNOCERA

Family PHILOPTERIDAE

Genus *Anatoecus*

- icteroides* Nitzsch, 1818, Germar's Mag. Ent., vol. 3, Santa Cruz
p. 290 (*Philopterus*).

Genus *Bruelia*

- chelydensis* Hopkins, 1951, Ann. Mag. Nat. Hist., Fernandina, Isabela,
ser. 12, vol. 4, p. 377. San Cristóbal,
galapagensis Kellogg & Kuwana, 1902, Proc. Española
Wash. Acad. Sci., 4:474 (*Nirmus vulgatus*
var.).
galapagensis Kellogg & Kuwana, 1902, Proc. Fernandina, Isabela,
Acad. Sci., vol. 4, p. 464, pl. 28, fig. 4 (*Docophor San Cristóbal*
orus).
galapagensis Kellogg & Kuwana, 1902, Proc.
Wash. Acad. Sci., vol. 4, p. 471, pl. 29, fig. 5
(*Nirmus*).
interposita Kellogg, 1896, Occ. Pap. Calif. Acad. Sci., Fernandina, Isabela
no. 6, p. 23, pl. 2, fig. 7 (*Nirmus*).
vulgata Kellogg, 1896, Occ. Pap. Calif. Acad. Sci., Isabela
no. 6, p. 495, pl. 67, fig. 5 (*Nirmus*).

Genus *Columbicola*

- ?*macrourae* Wilson, 1941, Jour. Parasitol., vol. 27, Wolf, Marchena,
no. 262, figs. 5-8 (*Esthiopterum*). Isabela
baculus Kellogg & Kuwana, 1902 (not Nitzsch,
1818), Proc. Wash. Acad. Sci., vol. 4, p. 478
(*Lipcurus*).*

Genus *Craspedorrhynchus*

- taurocephalus* Kellogg, 1896, Proc. Calif. Acad. Sci., Baltra
ser. 2, vol. 6, p. 471, pl. 65, fig. 1 (*Docophorus*).

Genus *Degeeriella*

- regalis* Giebel, 1866, Zeitschr. Ges. Naturwiss., vol. Fernandina, Isabela,
28, p. 364 (*Nirmus*). Marchena
curvilineata Kellogg & Kuwana, 1902, Proc. Wash.
Acad. Sci., vol. 4, p. 470, pl. 29, fig. 4 (*Nir-
mus*).
fusca Kellogg, 1906 (not Denny, 1842), Trans.
Amer. Ent. Soc., vol. 32, p. 318 (*Nirmus*).*

Genus **Docophoroides**

- ?*brevis* Dufour, 1835, Ann. Soc. Ent. France, vol. 4, Fernandina
p. 674, pl. 21, fig. 3 (*Philopterus*).
irroratae Timmerman, 1962, Zeitschr. f. Parasitenk., Galápagos Islands
vol. 21, p. 435.
levequei Timmerman, 1963, Bonn. zool. Beitr., vol. Española
14, p. 158.

Genus **Halipeurus**

- attenuatus* Edwards, 1961, Jour. Parasitol., vol. 47, nr. Galápagos Islands
p. 148, figs. 3-7 M.
diversus Kellogg, 1896, Proc. Calif. Acad. Sci., ser. 2, Darwin, Wolf, Isabela
vol. 6, p. 123, pl. 8, figs. 3, 4 (*Lipeurus*).
limitatus Kellogg, 1906, Trans. Amer. Ent. Soc.,
vol. 32, p. 319 (*Lipeurus*).
intermedius Edwards, 1961, Jour. Parasitol., vol. 47, Galápagos Islands
p. 151, figs. 3-7 S.
major Kellogg & Kuwana, 1902 (not Piaget,
1880), Proc. Wash. Acad. Sci., vol. 4, p. 447
(*Lipeurus diversus* var.).
pelagicus Denny, 1842, Mon. Anopl. Brit., vol. 58, Darwin, Wolf, Isabela
p. 173, pl. 14, fig. 2 (*Lipeurus*).
exiguus Kellogg & Kuwana, 1902, Proc. Wash.
Acad. Sci., vol. 4, p. 479, pl. 30, fig. 2 (*Li-
peurus*).
languidus Kellogg & Kuwana, 1902, Proc. Wash.
Acad. Sci., vol. 4, p. 475, pl. 28, fig. 8 (*Li-
peurus*).

Genus **Pectinopygus**

- annulatus* Piaget, 1880, Pédiculines: p. 340, pl. 27, Darwin, Wolf,
fig. 10 (*Lipeurus*).
fuscomarginatus, Kellogg, 1906 (not Denny,
1842), Trans. Amer. Ent. Soc., vol. 32, p. 318
(*Nirmus*).*
minor Ewing, 1924, Zoologica, vol. 5, p. 84 (*Es-
thiopterum potens* var.)*
potens Kellogg & Kuwana, 1902, Proc. Wash.
Acad. Sci., vol. 4, p. 477, pl. 30, fig. 1 (*Li-
peurus*).
fregatiphagus Eichler, 1843, Zool. Anz. (*Epifrega*)* Wolf
major Kellogg, 1899, Occ. Pap. Calif. Acad. Sci.,
no. 6, p. 30, pl. 3, fig. 3 (*Lipeurus gracilicorne*
var.).

- nannopteri** Ewing, 1924, *Zoologica*, vol. 5, p. 82, fig. 12 (*Esthiopterum*).* Galápagos Islands
- sulae** Rudow, 1869, *Beitr. Kenntn. Malloph.*, p. 43 Darwin, Wolf, (*Lipeurus*). Marchena, Isabela
- helleri** Kellogg & Kuwana, 1902, *Proc. Wash. Acad. Sci.*, vol. 4, p. 479, pl. 30, fig. 3 (*Lipeurus*).*

Genus **Perineus**

- miriceps** Kellogg & Kuwana, 1902, *Proc. Wash. Acad. Sci.*, vol. 4, p. 480, pl. 30, fig. 4 (*Lipeurus*). Isabela
- oblongus** Kéler, 1957, *Beitr. Ent.*, vol. 7, p. 523, figs. 27-28. Galápagos Islands

Genus **Philoceanus**

- becki** Kellogg, 1903, *Biol. Bull. Woods Hole*, vol. 5, p. 88, figs. 1, 2.* Wolf

Genus **Philopterus**

- breviformis** Kellogg & Kuwana, 1902, *Proc. Wash. Acad. Sci.*, vol. 4, p. 463, pl. 28, fig. 3 (*Docophorus*).* Isabela, Santa Cruz
- communis** Nitzsch, 1818, *Germar's Mag. Ent.*, vol. 3, p. 290. Fernandina, Española
- domesticus** Kellogg, 1896, *Proc. Calif. Acad. Sci.*, ser. 2, vol. 6, p. 475, pl. 65, fig. 4 (*Docophorus*). Santa Cruz
- insulicola** Kellogg & Kuwana, 1902, *Proc. Wash. Acad. Sci.*, vol. 4, p. 466, pl. 28, fig. 6 (*Docophorus*). Isabela

Genus **Physconelloides**

- galapagensis** Kellogg & Kuwana, 1902, *Proc. Wash. Acad. Sci.*, vol. 4, p. 481, pl. 30, fig. 5 (*Goniocotes*).* Wolf, Marchena, Fernandina, Isabela

Genus **Quadriceps**

- birostris** Giebel, 1874, *Insecta Epizoa*, p. 174 (*Nirmus*). Isabela, Baltra, Santa Fé
- gloriosa** Kellogg & Kuwana, 1902, *Proc. Wash. Acad. Sci.*, vol. 4, p. 467 (*Nirmus*).*
- paludicola** Kellogg & Kuwana, 1902, *Proc. Wash. Acad. Sci.*, vol. 4, p. 469, pl. 29, fig. 3 (*Nirmus*).* Isabela
- ridgewayi** Kellogg, 1906, *Trans. Amer. Ent. Soc.*, vol. 32, p. 317 (*Nirmus*).* Santa Cruz
- separatus** Kellogg & Kuwana, 1902, *Trans. Wash. Acad. Sci.*, vol. 4, p. 472, pl. 29, fig. 6 (*Nirmus*).* Wolf, Marchena, Isabela, Española

- strepsilaris* Denny, 1842, Mon. Anopl. Brit., pp. 52, 135, pl. 11, fig. 4 (*Nirmus*).
lepidus Kellogg & Kuwana, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 473, pl. 29, fig. 7 (*Nirmus*).*

Genus *Saemundssonia*

- albemarlensis* Kellogg & Kuwana, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 465, pl. 28, fig. 5 (*Docophorus*).
melanoccephalus Kellogg & Kuwana, 1902 (not Burmeister, 1838), Proc. Wash. Acad. Sci., vol. 4, p. 462 (*Docophorus*).*
- lari* O. Fabricius, 1780, Fauna Groenlandia, p. 219 (*Pediculus*).*
- minor* Kellogg & Kuwana, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 460 (*Docophorus validus* var.).
- platygaster* Denny, 1842, Mon. Anopl. Brit., pp. 43, 83, pl. 2, fig. 5 (*Docophorus*).
peristicta Kellogg & Kuwana, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 462, pl. 28, fig. 2 (*Docophorus*).
- phaetona* Osborn, 1890, Proc. U. S. Nat. Mus., vol. 12, p. 189 (*Docophorus*).*
- platycephalus* Kellogg & Kuwana, 1902, Proc. Wash. Acad. Sci., vol. 4, p. 461, pl. 8, fig. 1 (*Docophorus*).*

Genus *Trabeculus*

- mirabilis* Kellogg, 1896, Proc. Calif. Acad. Sci., ser. 2, vol. 6, p. 138, pl. 11, fig. 7, 8 (*Giebilia*).*

Order ANOPLURA

Family HAEMATOPINIDAE

Genus *Hoplopleura*

- nesoryzomydis* Ferris, 1921, Stanford Univ. Publ., Biol. Ser., vol. 2, no. 2, p. 90.
quadridentata Ferris, 1916 (not Neumann), Psyche, vol. 23, p. 116.

Genus *Polyplax*

- spinulosa* Burmeister, 1839, "Rhynchota" Gen. Ins., p. 8 (*Pediculus*).

Order HEMIPTERA

The principal references to Galápagos Hemiptera-Heteroptera are by Stål (1859), Butler (1877), Heidemann (1901), Barber (1925, 1934), and Van Duzee (1933, 1937). Changes since Barber's comprehensive list (1934) are *Dallasiellus* (Froeschner, 1960), *Dicranocephalus* (Scudder, 1957), *Liorhyssus* and *Rhopalus* (Harris, 1943, Iowa State College Jour. Sci., vol. 17, pp. 197-204), *Pentacora sphaelata* (Drake, 1954), *Trigonotylus* (Carvalho and Wagner, 1957), *Polymerus nigrifulus* and *Cyrtopeltis modesta* (Carvalho, 1957-1960), and *Halobates* (Herring, 1961). *Trichocorixa* (Hutchinson, 1931) was not identified to species. It is here recorded as *Trichocorixa reticulata* Guerin (Usinger).

Family CYDNIDAE

Genus *Dallasiellus*

- murinus** Van Duzee, 1933, Proc. Calif. Acad. Sci., Isabela, San Cristóbal ser. 4, vol. 21, p. 26 (*Geotomus*).

Family PENTATOMIDAE

Genus *Acrosternum*

- viridans** Stål, 1859, Fregatten Eugenies Resa, Zool., Santa Cruz, Santiago vol. 1, p. 228 (*Rhaphigaster*).

Genus *Thyanta*

- setigera** Ruckes, 1957, Pan-Pac. Ent., vol. 33, p. 179. Santa Cruz, Isabela.
perditor Heidemann, 1901 (not Fabricius, 1794), San Cristóbal, Floreana, Proc. Wash. Acad. Sci., vol. 3, p. 365. Jervis, Gardner, James, N. Seymour
similis Van Duzee, 1933, Proc. Calif. Acad. Sci., ser. Rábida, Floreana 4, vol. 21, p. 26.

Genus *Podisus*

- sordidus** Stål, 1859, Fregatten Eugenies Resa, Zool., Santa Cruz, Isabela, vol. 1, p. 221 (*Arma*). San Cristóbal, Floreana

Genus *Trincavellius*

- galapagoensis** Butler, 1877, Proc. Zool. Soc. London, Floreana 1877, p. 88 (*Sciocoris*).

Genus *Alcaeorrhyncus*

- grandis** Dallas, 1851, List Hemipt. Brit. Mus., vol. 1, Floreana p. 91 (*Canthecona*).

Family COREIDAE

Genus *Anasa*

- obscura** Dallas, 1852, List Hemipt. Brit. Mus., vol. 2, San Cristóbal p. 505.

Genus *Dicranocephalus*

- insularis** Dallas, 1852, List Hemipt. Brit. Mus., vol. Santa Cruz, Santiago,

2, p. 482 (*Stenocephalus*).

Isabela, Santiago,
Santa Cruz

Genus **Harmostes**

disjunctus Barber, 1925, Zoologica, vol. 5, p. 241.
serratus Heidemann (not Fabricius), 1901, Proc.
Wash. Acad. Sci., vol. 3, p. 365.

Santa Cruz, Isabela

Genus **Liorhyssus**

hyalinus Fabricius, 1794, Ent. Syst., vol. 4, p. 168
(*Lygacus*).

Genovesa, Daphne
Major

Genus **Rhopalus**

lugens Signoret, 1859, Ann. Soc. Ent. France, ser. 3,
vol. 7, p. 92 (*Corizus*).

Galápagos

Genus **Jadera**

sanguinolenta Fabricius, 1775, Syst. Ent., p. 721
(*Cimex*).

Wenman

Family NEIDIDAE

Genus **Aknisus**

galapagensis Barber, 1934, Meded. Zool. Mus., Oslo,
vol. 42, p. 284.
tenellus Heidemann, 1901, Proc. Wash. Acad. Sci.,
vol. 3, p. 366 (not Stål) (*Jalysus*).

San Cristóbal

Family LYGAEIDAE

Genus **Nysius**

naso Van Duzee, 1933, Proc. Calif. Acad. Sci., ser. 4,
vol. 21, p. 27 (*Nysius-Ortholomus*).
marginalis Dallas, 1852, List Hemipt. Brit. Mus.,
vol. 2, p. 556 (? *Nysius*).
galapagensis Stål, 1860, Freg. Eugenies Resa, Ins.,
p. 252 (*Cymus*).

Floreana

Floreana, Santiago,
Daphne Major

Genus **Heraeus**

pacificus Barber, 1925, Zoologica, vol. 5, p. 245.

Santiago

Genus **Orthaea**

insularis Barber, 1925, Zoologica, vol. 5, p. 246.

Baltra, Santiago,
Isabela, Santa Cruz

Family PYRRHOCORIDAE

Genus **Dysdercus**

concinus Stål, 1861, Öfv. Vet. Akad. Förh., p. 198.

Santa Cruz

Family TINGIDAE

Genus **Corythaica**

cytharina Butler, 1877, Proc. Zool. Soc. Lond., 1877,

Santiago, Daphne

- p. 90 (*Monanthia*). Major
renormata Barber, 1925, Zoologica, vol. 5, p. 251.
- Family REDUVIIDAE
 Genus **Ghilianella**
- galapagensis* Heidemann, 1901, Proc. Wash. Acad. Sci., vol. 3, p. 367. Isabela, Española
- Genus **Repipta**
- annulipes* Barber, 1925, Zoologica, vol. 5, p. 250. Santa Cruz, Isabela
 species? Heidemann, 1901. Proc. Wash. Acad. Sci., vol. 3, p. 366 (nymph) (*Cosmoclopius-Harpactor*).
- Family NABIDAE
 Genus **Nabis**
- punctipennis* Blanchard, 1852, Gay, Hist. de Chili, Zool., vol. 7, p. 161. Isabela, Floreana, Santiago
- Family CIMICIDAE
 Genus **Cimex**
- lectularius* Linnaeus, 1758, Syst. Nat., 10th ed., p. 441. Floreana
- Family MIRIDAE
 Genus **Trigonotylus**
- lineatus* Butler, 1877, Proc. Zool. Soc. Lond., 1877, p. 89 (*Miris*). Isabela, Floreana, Seymour
- Genus **Psallus**
- insularis* Barber, 1925, Zoologica, vol. 5, p. 250. Santiago
- Genus **Fulvius**
- geniculatus* Van Duzee, 1933, Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 29. Rábida, San Cristóbal, Santiago, Fernandina, Floreana
- Genus **Diaphnidia**
- crockeri* Van Duzee, 1933, Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 29. Santiago
- Genus **Dagbertus**
- darwini* Butler, 1877, Proc. Zool. Soc. Lond., 1877, p. 89 (*Capsus*). Floreana
- quadrinotatus* Walker, 1873, Cat. Hem. Heter. Brit. Mus., vol. 6, p. 113 (*Capsus*). Floreana, Santiago
- spoliatus* Walker, 1873, Cat. Hem. Heter. Brit. Mus., vol. 6, p. 112 (*Capsus*). Floreana, Santiago

Genus **Polymerus**

- nigritulus** Walker, 1873, Cat. Hem. Heter. Brit. Floreana
Mus., vol. 6, p. 112 (*Capsus*).
vegatus Van Duzee, 1933, Proc. Calif. Acad. Sci., ser. Isabela
4, vol. 21, p. 28 (*Poeciloscytus*).

Genus **Creontiades**

- castaneum** Van Duzee, 1933, Proc. Calif. Acad. Sci., San Cristóbal
ser. 4, vol. 21, p. 27.
fuscus Barber, 1925, Zoologica, vol. 5, p. 248. Santiago, Santa Cruz
willowsi Van Duzee, 1933, Proc. Calif. Acad. Sci., Santiago, Santa Cruz,
ser. 4, vol. 21, p. 28. Rábida

Genus **Cyrtopeltis**

- modesta** Distant, 1893, Biol. Centr.-Amer. Rhynch., Santa Cruz
vol. 1, p. 447 (*Neosilia*).
geniculatus Reuter, 1876, Öfv. K. Vet. Akad. Förh., vol. 36, no. 2, p. 83 (*Engytatus*).

Genus **Europiella**

- mella** Van Duzee, 1937, Proc. Calif. Acad. Sci., ser. Santa Cruz
4, vol. 22, p. 117.

Family SALDIDAE

Genus **Pentacora**

- sphacelata** Uhler, 1877, Bull. U. S. Geol. Geogr. Sur- Isabela
vey, vol. 3, p. 434 (*Salda*).
rubromaculata Heidemann, 1901, Proc. Wash. Acad. Sci., vol. 3, p. 368 (*Salda*).

Family GERRIDAE

Genus **Halobates**

- micans** Eschscholtz, 1822, Entomographien, p. 107 near Santiago,
wüllerstorffi Frauenfeld, 1867, Verh. K. K. Zool. Galápagos
Bot. Ges. Wien, vol. 17, p. 458.
robustus Barber, 1925, Zoologica, vol. 5, p. 253. Santa Cruz, Floreana,
Isabela
sobrinus White, 1883, Voy. Challenger, Rpt. Zool., near Galápagos
vol. 7, no. 19, p. 46.

Family CORIXIDAE

Genus **Trichocorixa**

- reticulata** Guerin, 1857, *in* Sagra, Hist. Cuba, Ins., p. Galápagos
423 (*Corisa*).

Order HOMOPTERA

The leading publications on Galápagos Homoptera are Walker (1851), Stål

(1859), Butler (1877), Morrison (1924),¹ Osborn (1924), and Van Duzee (1933, 1937). Reclassification of the Walker and Butler species was by Muir (1919) and W. E. China (*in* Champion, 1924). The most recent placement of Fulgoridae is given in Metcalf (1943, 1954, 1958). Fennah (personal communication) placed *Issus varius* Walker in *Philatis*. Linnavuori (1959) is the authority for generic placement of *Deltocephalus*, *Scaphytopius*, *Amplicephalus*, and *Exitianus*. W. E. China (personal communication) corrected the name *Jassus* of Van Duzee and Osborn. D. A. Young (personal communication) examined the Van Duzee types of Cicadellidae and his generic assignments have been followed. The modern classification of Coccidae is after Ferris (Atlas of Scale Insects of North America, Stanford University). H. L. McKenzie kindly reviewed the manuscript on Coccidae.

Family FULGORIDAE

Sub-family CIXIINAE

Genus *Nymphocixia*

unipunctata Van Duzee, 1923, Proc. Calif. Acad. Sci., ser. 4, vol. 12, p. 189. Isabela, Santa Cruz

Genus *Oliarus*

galapagensis Van Duzee, 1933, Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 33. Isabela, Santa Cruz

Sub-family ISSINAE

Genus *Philatis*

breviceps Van Duzee, 1933, Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 33. Floreana

cinerea Osborn, 1924, Zoologica, vol. 5, p. 78. Genovesa

major Osborn, 1924, Zoologica, vol. 5, p. 79. Santa Cruz

producta Stål, 1859, Fregatten Eugénies Resa, Ins., p. 278 (*Mycterodus*). Isabela, Seymour, Genovesa, Santa Cruz

serva Van Duzee, 1933, Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 34. Isabela, ? Santiago

varia Walker, 1851, List Homopt. Brit. Mus., vol. 2, p. 372 (*Issus*). New combination. Santiago

vicina Van Duzee, 1933, Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 34. Rábida

Genus *Euthiscia*

crockeri Van Duzee, 1937, Proc. Calif. Acad. Sci., ser. 4, vol. 22, p. 119. Santa Cruz

Genus *Galapagosana*

rostrifer Butler, 1877, Proc. Zool. Soc. Lond., 1877, p. 90 (*Issus*). Floreana

Sub-family DELPHACINAE

Genus **Delphacodes**

- substitua** Walker, 1851, List Homopt. Brit. Mus., Floreana, Santiago
vol. 2, p. 354 (*Delphax*).
- vicaria** Walker, 1851, List Homopt. Brit. Mus., vol. Floreana, Santiago
2, p. 355 (*Delphax*).

Genus **Ilburnia**

- simulans** Walker, 1851, List Homopt. Brit. Mus., vol. Santiago, Floreana
2, p. 355 (*Delphax*).

Family CICADELLIDAE

Genus **Deltocephalus**

- insularis** Van Duzee, 1933, Proc. Calif. Acad. Sci., San Cristóbal,
ser. 4, vol. 21, p. 30 (possibly an *Amplicephalus* Floreana
Linnavuori, 1959).

Genus **Scaphytopius**

- aequinoctialis** Van Duzee, 1933, Proc. Calif. Acad. Isabela, ? Santiago
Sci., ser. 4, vol. 21, p. 30 (*Platymetopius*).
- retusus** Van Duzee, 1937, Proc. Calif. Acad. Sci., ser. Santa Cruz
4, vol. 22, p. 123 (*Platymetopius*).

Genus **Sanctonus**

- discalis** Van Duzee, 1933, Proc. Calif. Acad. Sci., ser. San Cristóbal
4, vol. 21, p. 31 (*Scaphoideus*).

Genus **Exitianus**

- digressus** Van Duzee, 1933, Proc. Calif. Acad. Sci., San Cristóbal, Santi-
ago, Seymour, Rábida
ser. 4, vol. 21, p. 32 (*Athysanus*).

Genus **Agalliopsis**

- mera** Van Duzee, 1937, Proc. Calif. Acad. Sci., ser. Santa Cruz
4, vol. 22, p. 123.

Genus **Agallia**

- planus** Butler, 1877, Proc. Zool. Soc. Lond., 1877, p. Floreana
91 (*Jassus*).
- striolaris** Butler, 1877, Proc. Zool. Soc. Lond., 1877, Floreana
p. 91. (*Jassus*).

Genus **Coelidia**

- infesta** Van Duzee, 1937, Proc. Calif. Acad. Sci., ser. Santa Cruz
4, vol. 22, p. 124 (*Jassus*).
- galapagoensis** Osborn, 1924, Zoologica, vol. 5, no. 6, Santiago, Santa Cruz
p. 77 (*Jassus*).

Genus **Mesamia**

- obliquus** Walker, 1851, List Homopt. Brit. Mus.,
vol. 3, p. 851 (*Acrocephalus*).

Genus **Balclutha**

lucidus Butler, 1877, Proc. Zool. Soc. Lond., 1877, Santiago
p. 91 (*Jassus*).

Family COCCIDAE

Genus **Margarodes**

similis Morrison, 1924, Zoologica, vol. 5, p. 143, fig. 33. Santa Cruz, Eden,
Baltra

Genus **Orthezia**

galapagoensis Kuwana, 1902, Jour. New York Ent. Soc., vol. 10, p. 28. Isabela, Santa Cruz,
Duncan

Genus **Eriococcus**

papillosus Morrison, 1924, Zoologica, vol. 5, p. 145. Santa Cruz

Genus **Asterolecanium**

pustulans Cockerell, 1892. Jour. Inst. Jamaica, vol. 1, p. 143 (*Asterodiaspis*). Isabela

Genus **Saissetia**

hemisphaerica Targioni-Tozzetti, 1867. Studii sul. Cocc., vol. 11, p. 26 (*Lecanium*). Isabela, San Cristóbal

Genus **Coccus**

hesperidum var. **pacificum** Kuwana, 1902, Jour. New York Ent. Soc., vol. 10, p. 30 (*Lecanium*). Abingdon, Isabela,
Baltra

Genus **Melanaspis**

obtusa Ferris, 1941, Atlas of Scale Ins. N. America, S III, p. 362. Isabela

smilacis Kuwana, 1902. Jour. N. Y. Ent. Soc., vol. 10, p. 32 (not Comstock).

Genus **Hemiberlesia**

lataniae Signoret, 1869, Ann. Soc. Ent. France, ser. 4, vol. 9, p. 124 (*Aspidiotus*). Abingdon

Genus **Phenacoccus**

parvus Morrison, 1924, Zoologica, vol. 5, p. 147. Tower

Genus **Pseudococcus**

galapagoensis Morrison, 1924, Zoologica, vol. 5, p. 148. Santa Cruz, (Eden)

insularis Morrison, 1924, Zoologica, vol. 5, p. 150. Baltra

Genus **Ceroplastes**

sp. Morrison, 1924, Zoologica, vol. 5, p. 152. Santa Cruz, (Eden).
Baltra

Order NEUROPTERA

The principal references are Banks (1924) and Esben-Petersen (1934).

The list was checked by D. E. Kimmins (personal communication).

Family MYRMELEONIDAE

Genus *Myrmelcon*

- perpilosus* Banks, 1924, *Zoologica*, vol. 5, p. 177. Santa Cruz
 sp., Esben-Petersen, 1934, *Nyt Mag. f. Naturvi-* Floreana
densk., vol. 74, p. 293, fig. 3 (larva).

Genus *Dimares*

- formosus* Banks, 1908, *Proc. Ent. Soc. Washington*, S. Elena
 vol. 9, p. 31.
nummatus Navas, 1912, *Ann. Soc. Sci. Bruxelles*,
 vol. 36, p. 229, fig. 16.

Family CHRYSOPIDAE

Genus *Chrysopa*

- nigripilosa* Banks, 1924, *Zoologica*, vol. 5, p. 177. Baltra
galapagoensis Banks, 1924, *Zoologica*, vol. 5, p. 179. Baltra
wollbaeki Esben-Petersen, 1934, *Nyt Mag. f. Natur-* Floreana
vidensk., vol. 74, p. 291, figs. 1-2.

Family HEMEROBIIDAE

Genus *Megalomus*

- darwinii* Banks, 1924, *Zoologica*, vol. 5, p. 179. Santa Cruz

Order COLEOPTERA

The major contributors to our knowledge of the Galápagos Coleoptera have been G. R. Waterhouse (1845), Boheman (1859), C. Waterhouse (1877), Mutchler (1925, 1938), Blair (1928, 1933), and Van Dyke (1953). The present summary is based largely on Van Dyke, supplemented by descriptions or taxonomic treatment of Galápagos beetles appearing since 1953. Three of the most doubtful of the records reported by Blair (1933), *Doryphora guerina* Stål, *Diabrotica ventricosa* Jacoby, and *Physonota alutacea* Boheman, were excluded by Van Dyke and we have not restored them to the list. However, other dubious records remain and these are indicated with a question mark in front of the recorded Galápagos locality. R. F. Smith (personal communication) examined the type of *Diabrotica limbata* Waterhouse and found that it belongs to the genus *Acalymma*. This altered generic assignment is indicated below and the new combination should be credited to him.

Family CICINDELIDAE

Genus *Cicindela*

- galapagoensis* W. Horn, 1915, *Genera Insectorum*, Isabela
 Fasc. 82, p. 402.
vonhageni Mutchler, 1938, *Amer. Mus. Nov.*, no. Santa Cruz
 981, p. 2, pl. 1, fig. 1.

Family CARABIDAE

Genus *Calosoma*

- darwiniana* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 10, pl. 1, f. 3. Isabela
- galapageium* Hope, 1838, Trans. Ent. Soc. London, vol. 2, p. 130. Santiago
- howardi* Linell, 1898, Proc. U. S. Nat. Mus., vol. 21, p. 251. Darwin, Isabela, Santiago, Pinzón,
- galapagoum* Howard (not Hope), 1889, Proc. U. S. Nat. Mus., vol. 12, p. 191. Santa Cruz, Baltra, San Cristóbal,
- galapageium* Breuning (not Hope), 1927, Koleopt. Rundschau, vol. 13, p. 140. Floreana
- linelli* Mutchler, 1925, Zoologica, vol. 5, p. 221. San Cristóbal
- galapageium* Linell (not Hope), 1898, Proc. U. S. Nat. Mus., vol. 21, p. 250.

Genus *Scarites*

- galapagoensis* Linell, 1898, Proc. U. S. Nat. Mus., vol. 21, p. 253. San Cristóbal
- williamsi* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., vol. 22, p. 13, pl. 2, fig. 3. Isabela

Genus *Bembidion*

- equatoriale* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 15. San Cristóbal
- galapagoensis* G. R. Waterhouse, 1845, Ann. Nat. Hist., vol. 16, p. 23 (*Notaphus*). Pinta, Santiago

Genus *Tachys*

- beebei* Mutchler, 1925, Zoologica, vol. 5, p. 223, fig. 42. Baltra

Genus *Feronia*

- becki* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 24. Santiago
- blairi* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 19. Santiago
- calathoides* G. R. Waterhouse, 1845, Ann. Nat. Hist., vol. 16, p. 21. San Cristóbal
- duncani* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 21, pl. 2, fig. 4. Pinzón
- galapagoensis* G. R. Waterhouse, 1845, Ann. Nat. Hist., vol. 16, p. 21. Santiago
- insularis* Boheman, 1858, Fregatten Eugenies Resa, vol. 1, p. 14. Isabela

- mutchleri* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 20. Isabela
- waterhousei* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 17. Floreana
- williamsi* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 21. Santa Cruz

Genus *Agonum*

- albemarli* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 27. Isabela
- chathamii* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 26, pl. 2, fig. 9. San Cristóbal
- darwinii* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 25, pl. 2, figs. 7, 8. San Cristóbal

Genus *Selenophorus*

- galapagoensis* G. R. Waterhouse, 1845, Ann. Nat. Hist., vol. 16, p. 22. San Cristóbal, Floreana, Española, Gardner
- obscuricornis* G. R. Waterhouse, 1845, Ann. Nat. Hist., vol. 16, p. 22 (*Amblygnathus*). Isabela
- wenmani* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., vol. 22, p. 29. Wolf

Family DYTISCIDAE

Genus *Copelatus*

- galapagoensis* G. R. Waterhouse, 1845, Ann. Nat. Hist., vol. 16, p. 23. Isabela, San Cristóbal

Genus *Rhantus*

- sp. (*signatus* Fabricius?) Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 32. San Cristóbal

Genus *Thermonectes*

- basillaris galapagoensis* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 33. Isabela, Baltra, San Cristóbal,
- incisus* var. C. Waterhouse, 1877, Proc. Zool. Soc. London, vol. 5, p. 79, 82 (*Acilius*). Floreana
- basillaris* Mutchler (not Harris), 1925, Zoologica, vol. 5, p. 225.

Genus *Eretes*

- sticticus* Linnaeus, 1767, Systema Naturae, ed. 12, p. 666 (*Dytiscus*). Santa Cruz, San Cristóbal, Floreana
- occidentalis* C. Waterhouse (not Erickson), 1877, Proc. Zool. Soc. London, vol. 5, p. 77 (*Eutnectes*).

Family GYRINIDAE

Genus **Gyrinus**

galapagoensis Van Dyke, 1953, Occ. Pap. Calif. San Cristóbal
Acad. Sci., no. 22, p. 34.

Family HYDROPHILIDAE

Genus **Ochthebius**

batesoni Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, San Cristóbal ?
vol. 11, p. 473.

Genus **Tropisternus**

lateralis Fabricius, 1775, Systema Entomologia, p. Santiago, San
28 (*Hydrophilus*). Cristóbal, Floreana

Genus **Enochrus**

obscurus Sharp, 1882, Biologia Centr.-Americana, San Cristóbal,
Coleoptera, vol. 1, no. 2, p. 69 (*Philhydrus*). Floreana
waterhousei Blair, 1933, Ann. Mag. Nat. Hist., ser. ? San Cristóbal
10, vol. 11, p. 473.

Genus **Galapagodacnum**

darwini Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, Pinta, Brattle,
vol. 11, p. 474 (*Coelostoma*). Genovesa

Family STAPHYLINIDAE

Genus **Bledius**

aequatorialis Mutchler, 1925, Zoologica, vol. 5, p. Baltra
225, fig. 43.

Genus **Criophilus**

villosus Gravenhorst, 1802, Coleopt. Microptera Isabela, San Cristóbal
Brunsvicensis, p. 160.

Family HISTERIDAE

Genus **Carcinops**

galapagoensis Van Dyke, 1953, Occ. Pap. Calif. Pinta, Genovesa,
Acad. Sci., no. 22, p. 38. Santa Cruz
tenellus Erickson, 1834, *in* King, Jahrb. Ins., vol. 1, Isabela, Santiago
p. 170 (*Paramalus*).

Genus **Saprinus**

batesoni Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, Eden, ? San
vol. 11, p. 475. Cristóbal
modestior Marseul, 1845, Mon., p. 493, pl. 19, fig. Pinta
110.

Family LYCIDAE

Genus **Calocladon**

testaceum Gorham, 1881, *Biologia Centr.-Americana*, Coleoptera, vol. 3, no. 2, p. 28, pl. 2, fig. 20. ? San Cristóbal

Family CANTHARIDAE

Genus **Chauliognathus**

sulphureus C. Waterhouse, 1878, *Trans. Ent. Soc. London*, 1878, p. 331. ? San Cristóbal

Family MELYRIDAE

Genus **Ablechrus**

flavipes C. Waterhouse, 1877, *Proc. Zool. Soc. London*, p. 79. San Cristóbal

darwinii C. Waterhouse, 1877, *Proc. Zool. Soc. London*, p. 81.

Family CLERIDAE

Genus **Pelonium**

longfieldae Blair, 1928, *Ann. Mag. Nat. Hist.*, ser. 10, vol. 1, p. 677. Isabela, Santiago, San Cristóbal, Floreana

Genus **Necrobia**

rufipes De Geer, 1775, *Mem.*, vol. 5, p. 165, pl. 15, fig. 4. Cosmopolitan

Family OEDEMERIDAE

Genus **Oxaxis**

galapagoensis Linell, 1898, *Proc. U. S. Nat. Mus.*, vol. 21, p. 266. Isabela, Santiago, San Cristóbal, Floreana, Española

pilosa Champion, 1890, *Biologia Centr.-Amer.*, Coleoptera, vol. 4, no. 2, p. 156, pl. 7, fig. 15. Santiago

Genus **Alloxaxis**

collenettei Blair, 1928, *Ann. Mag. Nat. Hist.*, ser. 10, vol. 1, p. 673. Isabela, Santiago, Santa Cruz, Baltra

hoodi Van Dyke, 1953, *Occ. Pap. Calif. Acad. Sci.*, no. 22, p. 43. Española

seymourensis Mutchler, 1925, *Zoologica*, vol. 5, p. 226. Baltra

Family MORDELLIDAE

Genus **Mordellistena**

galapagoensis Van Dyke, 1953, *Occ. Pap. Calif. Acad. Sci.*, no. 22, p. 44. Genovesa

Family MELÓIDAE

Genus *Cissites*

- maculata* Swederus, 1787, Svenska Vetensk. Avhandl. Santa Cruz, Baltra,
Natursk., p. 199, pl. 8, fig. 8 (*Cucujus*). San Cristóbal

Family ELATERIDAE

Genus *Conoderus*

- galapagoensis* Van Dyke, 1953, Occ. Pap. Calif. Isabela, San
Acad. Sci., no. 22, p. 45, pl. 6, fig. 4. Cristóbal, Floreana

Genus *Physorinus*

- batesoni* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., Isabela
no. 22, p. 51.
blairi Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., Santiago
no. 22, p. 50.
chathamii Van Dyke, 1953, Occ. Pap. Calif. Acad. San Cristóbal
Sci., no. 22, p. 51.
dichroa Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., Santiago
no. 22, p. 47.
hoodi Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., Española
no. 22, p. 49.
quirsfeldi Mutchler, 1938, Amer. Mus. Novitates, Santa Cruz
no. 981, p. 4.
ruficeps Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., Isabela
no. 22, p. 48.

Genus *Anchastus*

- galapagoensis* G. R. Waterhouse, 1845, Ann. Nat. Galápagos Islands
Hist., vol. 16, p. 25 (*Physorhinus*).
williamsi Van Dyke, 1953, Occ. Pap. Calif. Acad. Santa Cruz
Sci., no. 22, p. 53.

Genus *Heterocrepidius*

- puberulus* Boheman, 1858, Fregatten Eugénies Resa. Galápagos Islands
vol. 1, p. 66.

Genus *Aeolus*

- fuscatus* Steinhil, 1875, Coleopt. Hefte. vol. 14, p. Santa Cruz, Floreana
125.

Genus *Grammophorus*

- galapagoensis* Van Dyke, 1953, Occ. Pap. Calif. Pinzón, Santa Cruz
Acad. Sci., ser. 4, vol. 22, p. 55.

Genus *Coptostethus*

- williamsi* Mutchler, 1925, Zoologica. vol. 5, p. 227. Pinta, Marchena,
fig. 44. Baltra

Family BUPRESTIDAE

Genus **Chrysobothris**

williamsi Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 56, pl. 6, fig. 6. Isabela, Pinzón, San Cristóbal

Genus **Mastogenius**

cuneaticollis Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 58. Pinzón, Santa Cruz

galapagoensis Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 57. Gardner

Family DERMESTIDAE

Genus **Dermestes**

carnivorus Fabricius, 1775, Syst. Ent., p. 55. Isabela, San Cristóbal

maculatus De Geer, 1774, Mem. Ins., vol. 4, p. 223. Santiago

Family OSTOMIDAE

Genus **Temnochila**

galapagoensis Mutchler, 1938, Amer. Mus. Novitates, no. 981, p. 5, fig. 4. Isabela, Santiago, Santa Cruz

Genus **Tenebroides**

sp., Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 61. Isabela

Family NITIDULIDAE

Genus **Stelidota**

insularis Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 61. Santa Cruz, San Cristóbal

Genus **Haptonchus**

luteolus Erickson, 1843, Zeitschr. f. Ent., vol. 4, p. 272 (*Epuraca*). Isabela

Family CUCUJIDAE

Genus **Silvanus**

tropicalis Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 62. Santa Cruz

Family MONOTOMIDAE

Genus **Bactridium**

insularis Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 63. Santa Cruz

Family DISCOLOMIDAE

Genus **Fallia**

colorata John, 1959, Senckenbergiana Biol., vol. 40, p. 295, pl. 35, figs. 2a-2e. Santa Cruz

galapagana John, 1959, *Senckenbergiana Biol.*, vol. Santa Cruz
40, p. 295, fig. 2.

Family COLYDIDAE

Genus **Bitoma**

exarata Pascoe, 1866, *Jour. Ent.*, vol. 2, p. 91, pl. 5, Isabela
fig. 8 (*Coniophaca*).

Family LANGURIIDAE

Genus **Comptocarpus**

longicollis Motschulsky, 1860, *in* Schrenck, *Reisen* San Cristóbal
u. Forschungen im Amurlande, vol. 2, no. 2, p. 244.

Family COCCINELLIDAE

Genus **Scymnus**

galapagoensis G. R. Waterhouse, 1845, *Ann. Nat. Fernandina,*
Hist., vol. 16, p. 41. Santa Cruz

Genus **Cycloneda**

sanguinea Linnaeus, 1763, *Centurea Ins.*, p. 10. Genovesa, Santa
Cruz, Floreana

Genus **Olla**

abdominalis Say, 1824, *Jour. Acad. Nat. Sci., Phila-* Santa Cruz
delphia, vol. 4, p. 95.

Genus **Adalia**

galapagoensis Van Dyke, 1953, *Occ. Pap. Calif. Acad. Sci.,* Isabela, Floreana
no. 22, p. 65.

Genus **Psyllobora**

bisigma Van Dyke, 1953, *Occ. Pap. Calif. Acad. Sci.,* Isabela
no. 22, p. 66.

Family ALLECULIDAE

Genus **Lobopoda**

galapagoensis Linell, 1898, *Proc. U. S. Nat. Mus.,* Floreana
vol. 21, p. 266.
Allecula sp., Howard, 1889, *Proc. U. S. Nat. Mus.,*
vol. 12, p. 191.

Genus **Allecula**

galapagoensis Van Dyke, 1953, *Occ. Pap. Calif. Acad. Sci.,* Santiago, Santa Cruz
vol. 22, p. 67.

insularis Van Dyke, 1953, *Occ. Pap. Calif. Acad. Sci.,* Isabela, Santa Cruz
no. 22, p. 68.

Genus *Ctesia*

- pedinoides* Mäklin, 1875, Acta Soc. Sci. Fennica, vol. ? San Cristóbal
10, p. 681.

Family TENEBRIONIDAE

Genus *Stomion*

- cribricollis* Van Dyke, 1953, Occ. Pap. Calif. Acad. Darwin, Wolf
Sci., no. 22, p. 75, pl. 3, fig. 3.
- galapagoensis* G. R. Waterhouse, 1845, Ann. Nat. San Cristóbal,
Hist., vol. 16, p. 29. Floreana, Española
- carinipenne* Linell, 1898, Proc. U. S. Nat. Mus.,
vol. 21, p. 262.
- carinatipenne* Blair, 1933, Ann. Mag. Nat. Hist.,
ser. 10, vol. 11, p. 477.
- piceum* Linell, 1898, Proc. U. S. Nat. Mus., vol.
21, p. 262.
- punctipennis* Van Dyke, 1953, Occ. Pap. Calif.
Acad. Sci., no. 22, p. 72 (*galapagoensis* subsp.).
- helopoides* G. R. Waterhouse, 1845, Ann. Nat. Hist., Genovesa, San
vol. 16, p. 30. Cristóbal, Floreana,
Española, Gardner
Santiago, Floreana
- laevigatum* G. R. Waterhouse, 1845, Ann. Nat.
Hist., vol. 16, p. 30.
- bauri* Linell, 1898, Proc. U. S. Nat. Mus., vol. 21,
p. 263.
- linelli* Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, vol. Genovesa, Eden,
11, p. 478. Santa Cruz
- laevigatum* Linell (not Waterhouse), 1898, Proc.
U. S. Nat. Mus., vol. 21, p. 263.
- mutchleri* Blair, 1933, Ann. Mag. Nat. Hist., ser.
10, vol. 11, p. 477.
- longicornis* Van Dyke, 1953, Occ. Pap. Calif. Acad. Española
Sci., no. 22, p. 79, pl. 3, fig. 7.
- longulum* Van Dyke, 1953, Occ. Pap. Calif. Acad. Isabela, Santa Cruz
Sci., no. 22, p. 76, pl. 3, fig. 4.
- obesum* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., Pinzón, Brattle,
no. 22, p. 74. Santa Fé
- rugosum* Van Dyke, 1953, Occ. Pap. Calif. Acad. Pinta
Sci., no. 22, p. 80.

Genus *Perepitragus*

- fuscipes* Latreille, 1833, Humb. et Bonpl. Voy., vol. San Cristóbal
2, p. 64, pl. 34, fig. 5.

Genus *Ammophorus*

- abingdoni** Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 96, pl. 4, fig. 7. Pinta
- antennatus** Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 90. Santa Fé
- bifoveatus bifoveatus** G. R. Waterhouse, 1845, Ann. Nat. Hist., vol. 16, p. 31. Santiago
- bifoveatus barringtoni** Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 96. Santa Fé
- cooksoni** C. Waterhouse, 1877, Proc. Zool. Soc. London, vol. 5, p. 80. Brattle, San Cristóbal, Floreana
- caroli* Linell, 1892, Proc. U. S. Nat. Mus., vol. 21, p. 264.
- denticollis** Boheman, 1858, Fregatten Eugenies Resa, vol. 1, p. 89. ? Galápagos Islands
- galapagoensis** G. R. Waterhouse, 1845, Ann. Nat. Hist., vol. 16, p. 30. San Cristóbal
- laevis* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 86, pl. 4, fig. 2 (*galapagoensis* subsp.).
- subpunctatus* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 86, pl. 4, fig. 2 (*galapagoensis* subsp.).
- insularis** Boheman, 1858, Fregatten Eugenies Resa, vol. 1, p. 89. Isabela, San Cristóbal
- obscurus** G. R. Waterhouse, 1845, Ann. Nat. Hist., vol. 16, p. 32. Isabela, Pinzón, Eden, Santa Cruz
- simplex** Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 87. San Cristóbal

Genus *Pedonoeces*

- apicalis** Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 105. Genovesa
- barringtoni** Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 109, pl. 5, fig. 9. Santa Fé
- batesoni** Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, vol. 11, p. 479. Eden
- blairi** Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 103. Floreana
- bauri** Linell, 1898, Proc. U. S. Nat. Mus., vol. 21, p. 265. San Cristóbal
- caudatus** Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 104, pl. 5, fig. 2. Española

- costatus* G. R. Waterhouse, 1845, Ann. Nat. Hist., Santiago
vol. 16, p. 35.
- duncani* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., Pinzón
no. 22, p. 110.
- galapagoensis* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 107. Santiago
- lugubris* Boheman, 1858, Fregatten Eugenies Resa, Pinta, Isabela, Eden,
vol. 1, p. 91, pl. 1, fig. 5 (*Tessaroma*). Santa Cruz, Española
- morio* Boheman, 1858, Fregatten Eugenies Resa, vol. Santiago, Santa Cruz
1, p. 92 (*Tessaroma*).
- opacus* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., Rábida
no. 22, p. 114.
- pubescens* G. R. Waterhouse, 1845, Ann. Nat. Hist., San Cristóbal
vol. 16, p. 36.
- spatulus* Van Dyke, 1953, Occ. Pap. Calif. Acad. Española, Gardner
Sci., no. 22, p. 108, pl. 5, fig. 5.
- uniformis* Van Dyke, 1953, Occ. Pap. Calif. Acad. San Cristóbal
Sci., no. 22, p. 105.
- wenmani* Van Dyke, 1953, Occ. Pap. Calif. Acad. Wolf
Sci., no. 22, p. 100, pl. 5, fig. 1.
- williamsi* Van Dyke, 1953, Occ. Pap. Calif. Acad. Santa Cruz
Sci., no. 22, p. 112.

Genus **Phaleria**

- manicata* Boheman, 1858, Fregatten Eugenies Resa, Isabela, Floreana,
vol. 1, p. 92. Española

Genus **Gnathocerus**

- cornutus* Fabricius, 1798, Entom. Syst., Suppl., p. 51 Isabela, Santiago
(*Trogosita*).

Genus **Alphitobius**

- laevigatus* Fabricius, 1781, Species Ins., vol. 1, p. 304. Floreana

Genus **Rhacius**

- costipennis* Blair, 1933, Ann. Mag. Nat. Hist., ser. Santiago
10, vol. 11, p. 480.

Genus **Prateus**

- dentatus* Van Dyke, 1953, Occ. Pap. Calif. Acad. Santa Cruz
Sci., no. 22, p. 119.

Family ANOBIIDAE

Genus **Trichodesma**

- denticollis* Blair, 1928, Ann. Mag. Nat. Hist., ser. 10. Floreana
vol. 1, p. 675.

Genus *Thaptor*

- galapagoensis* Blair, 1928, Ann. Mag. Nat. Hist., ser. 10, vol. 1, p. 676. Isabela, Santiago, Santa Cruz, Floreana

Genus *Eupactus*

- alutaceus* Blair, 1928, Ann. Mag. Nat. Hist., ser. 10, vol. 1, p. 677. Santiago
- georgicus* Blair, 1928, Ann. Mag. Nat. Hist., ser. 10, vol. 1, p. 676. Floreana

Family BOSTRICHIDAE

Genus *Tetrapriocera*

- longicornis* Olivier, 1795, Entomologie, vol. 4, no. 77, p. 15, pl. 3, fig. 18 (*Apate*). Pinzón, Santa Cruz

Genus *Micrapate*

- scabratus* Erickson, 1847, Wieg. Arch. f. Naturg., vol. 13, no. 1, p. 87 (*Rhizopertha*). San Cristóbal

Genus *Amphicerus*

- cornutus galapaganus* Lesne, 1910, Bull. Mus. Hist. Nat. d'Hist. Naturelle, vol. 16, p. 184 (*Schistoceros*). Wolf, Pinta, Isabela, Pinzón, Santa Cruz, Española
- sp., G. R. Waterhouse, 1845, Ann. Nat. Hist., vol. 16, p. 36 (*Apate*).
- unicantus* C. Waterhouse, 1877, Proc. Zool. Soc. London, p. 82 (*Bostrichus*).
- punctipennis* Linell, 1898, Proc. U. S. Nat. Mus., vol. 21, p. 256.

Family SCARABAEIDAE

Genus *Copris*

- lugubris* Boheman, 1858, Fregatten Eugenies Resa, vol. 1, p. 42. ? Galápagos Islands

Genus *Ataenius*

- aequatorialis* Petrovitz, 1961, Entomologische Arb., vol. 12, p. 355. Santa Cruz
- arrowi* Hinton, 1936, Ann. Mag. Nat. Hist., ser. 10, vol. 17, p. 414. Pinta, Isabela, Santa Cruz
- cribrithorax*, Blair, 1933 (not Bates, 1887), Ann. Mag. Nat. Hist., ser. 10, vol. 11, p. 476.
- dampieri* Petrovitz, 1961, Entomologische Arb., vol. 12, p. 356. Floreana
- scutellaris* Harold, 1867, Coleopterologische Hefte, vol. 18, p. 82. Pinta, Isabela, San Cristóbal, Floreana

Genus **Trox**

- galapagoensis** Van Dyke, 1953, Occ. Pap. Calif. Darwin
Acad. Sci., no. 22, p. 124, pl. 6, fig. 7.
- suberosus** Fabricius, 1775, Systema Ent., p. 31. Pinta, Isabela,
Santiago, Santa Cruz,
San Cristóbal,
Floreana, Española
- seymourensis** Mutchler, 1925, Zoologica, vol. 5, p. Pinta, Isabela, Baltra
229.

Genus **Neoryctes**

- galapagoensis** G. R. Waterhouse, 1845, Ann. Nat. Isabela, San
Hist., vol. 16, p. 26 (*Oryctes*). Cristóbal, Floreana
- linelli** Mutchler, 1938, Amer. Mus. Novitates, no. San Cristóbal
981, p. 10, figs. 10-12.
- sp., Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. Santa Cruz
22, p. 126.

Family PASSALIDAE

Genus **Passalus**

- interruptus** Linnaeus, 1767, Systema Naturae, ed. Floreana
12, p. 560 (*Lucanus*).
- tlascalala** Linell, 1898, Proc. U. S. Nat. Mus., vol.
21, p. 257.

Family CERAMBYCIDAE

Genus **Parandra**

- galapagoensis** Van Dyke, 1953, Occ. Pap. Calif. Isabela, Santiago,
Acad. Sci., no. 22, p. 127. Santa Cruz

Genus **Stenodontes**

- galapagoensis** Mutchler, 1925, Amer. Mus. Novitates, no. 981, p. 11, fig. 6. Santa Cruz
- molarius** Bates, 1879, Biol. Centr.-Americana, vol. 5, Santa Cruz, San
p. 9 (*Mallodon*). Cristóbal, Floreana

Genus **Strongylaspis**

- kracpelini** Lameere, 1903, Mem. Soc. Ent. Belgique, Santiago
vol. 11, p. 28.

Genus **Achryson**

- galapagoensis** Linell, 1898, Proc. U. S. Nat. Mus., Baltra, San Cristóbal
vol. 21, p. 259.

Genus **Eburia**

- amabilis** Boheman, 1859, Fregatten Eugénies Resa, ? Galápagos Islands
vol. 1, p. 150.

lanigera Linell, 1898, Proc. U. S. Nat. Mus., vol. 21, p. 259. Isabela, Santiago, Rábida, Pinzón, Eden,
amabilis Howard, 1890, Proc. U. S. Nat. Mus., vol. 12, p. 192. San Cristóbal, Floreana, Española, Gardner

proletaria Erickson, 1847, Arch. f. Naturgesch., vol. 13, p. 140. Santiago, San Cristóbal
bauri Linell, 1898, Proc. U. S. Nat. Mus., vol. 21, p. 260.

Genus **Compsa**

apicalis Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, vol. 11, p. 481. Santiago

Genus **Desmiphora**

hirticollis Olivier, 1795, Entomologie, vol. 4, no. 68, p. 11, pl. 4, fig. 37 (*Saperda*). Santiago

Genus **Estoloides**

galapagoensis Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, no. 11, p. 482 (*Estola*). Isabela, Santa Cruz

Genus **Estola**

cribrata Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, vol. 11, p. 483. Isabela
duncani Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 135. Pinzón
insularis Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, no. 11, p. 483. Isabela, Santiago, Santa Cruz

Genus **Acanthoderes**

galapagoensis Linell, 1898, Proc. U. S. Nat. Mus., vol. 21, p. 261. Isabela, Santiago, Santa Cruz, San Cristóbal
vonhageni Mutchler, 1938, Amer. Mus. Novitates, no. 981, p. 14 (*galapagoensis* var.).

Genus **Leptostylus**

galapagoensis Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 136, pl. 7, fig. 1. Isabela, Santiago
williamsi Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 137. Santiago, Rábida, Santa Cruz

Genus **Taeniotes**

hayi Mutchler, 1938, Amer. Mus. Novitates, no. 981, p. 13, fig. 3. ? Galápagos Islands

Family CHRYSOMELIDAE

Genus **Metachroma**

labrale Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, vol. 11, p. 484. Isabela, Santiago, Santa Cruz

Genus **Gynandrobrotica**

- ventricosa* Jacoby, 1887, Biol. Centr.-Amer., Coleoptera, vol. 6, p. 543, pl. 32, fig. 1 (*Diabrotica*). ? San Cristóbal

Genus **Acalymma**

- limbata* C. Waterhouse, 1877, Proc. Zool. Soc. London, 1877, p. 81 (*Diabrotica*). ? Galápagos Islands

Genus **Docema**

- darwinii* Mutchler, 1924, Zoologica, vol. 5, p. 230. Genovesa, Eden
galapagoensis G. R. Waterhouse, 1845, Ann. Mag. Nat. Hist., vol. 16, p. 39 (*Haltica*). Isabela, Rábida, Floreana

Genus **Longitarsus**

- galapagoensis* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 140. Santa Cruz, San Cristóbal, Floreana
lunatus C. Waterhouse, 1877, Proc. Zool. Soc. London, 1877, p. 81.

Family BRUCHIDAE

Genus **Spermophagus**

- galapagoensis* Blair, 1928, Ann. Mag. Nat. Hist., ser. 10, vol. 1, p. 678. Santiago, Española

Genus **Bruchus**

- fuscomaculatus* Blair, 1928, Ann. Mag. Nat. Hist., ser. 10, vol. 1, p. 679. Santiago

Family ANTHRIBIDAE

Genus **Ormiscus**

- variegatus* G. R. Waterhouse, 1845, Ann. Nat. Hist., vol. 16, p. 37. Pinta, Isabela, Gardner, Floreana

Family CURCULIONIDAE

Genus **Amphideritus**

- cuneiformis* G. R. Waterhouse, 1845, Ann. Nat. Hist., vol. 16, p. 38 (*Otiorynchus*). San Cristóbal, Floreana

Genus **Pantomorus**

- blairi* Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 146. Santiago
caroli Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 147. Floreana
conwayensis Mutchler, 1938, Amer. Mus. Novitates, no. 981, p. 15. Santa Cruz
crockeri Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 147. Genovesa

galapagoensis Linell, 1898, Proc. U. S. Nat. Mus., San Cristóbal
vol. 21, p. 268.

williamsi Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 150. Isabela

Genus *Gerstaeckeria*

galapagoensis barringtoni Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 152. Santa Fé

galapagoensis galapagoensis Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 151, pl. 7, fig. 8. Pinta

galapagoensis hoodensis Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 153. Española

galapagoensis seymourensis Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 153. Baltra

Genus *Gerais*

batesoni Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, San Cristóbal
vol. 9, p. 485.

Genus *Lembodes*

subcostatus Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 154, pl. 7, fig. 2. Isabela, Pinzón

Genus *Anchonus*

galapagoensis G. R. Waterhouse, 1845, Ann. Nat. Hist., vol. 16, p. 39. Santiago

Genus *Dryotribus*

mimeticus Horn, 1873, Proc. Amer. Philos. Soc., 13: 433. Fernandina

Genus *Micrancylus*

gracilis Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 156. Pinta

Genus *Neopentarthrum*

cunicollis Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 157. Isabela, Pinzón

glabrum Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 158. Pinta, Española

mutchleri Van Dyke, 1953, Occ. Pap. Calif. Acad. Sci., no. 22, p. 158. Pinta

towerensis Mutchler, 1925, Zoologica, vol. 5, p. 231, fig. 45. Genovesa

Family PLATYPODIDAE

Genus *Platypus*

santacruzensis Mutchler, 1925, Zoologica, vol. 5, p. 232, fig. 24. Isabela, Santa Cruz

Family SCOLYTIDAE

Genus *Pyncarthrum*

insulare Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, Genovesa, Isabela, vol. 11, p. 478. Española

Order LEPIDOPTERA

Comprehensive works on Galápagos Lepidoptera are by Williams (1911) for butterflies and hawk moths and Schaus (1923) for other moths. Meyrick (1926) described additional Microlepidoptera, some of which have been revised by Clark (1958). Richards (1941) dealt with the Noctuidae collected on Hancock expeditions. Beebe (1923) gives field notes for his collections of Lepidoptera. Burns (1964) clarifies the Van Duzee record of *Erynnis* (Hesperiidae). Kernbach (1962) gives the most recent review of Sphingidae. E. G. Munroe (personal communication) has indicated generic placements in the Pyralidae, J. A. Powell in the Tortricidae, and R. J. Collins (personal communication) has checked bibliographic references throughout. In Washington, sections of the manuscript were reviewed as follows:

D. R. Davis (USNM)—Tortricidae (Olethreutinae), Tineidae; W. D. Duckworth (USNM)—Pyralidae (Phycitinae), Yponomeutidae; W. D. Field (USNM)—Pieridae, Nymphalidae, Danaidae, Lycaenidae, Hesperidae, Springidae, Arctiidae; R. W. Hodges (USDA)—Pyralidae (Pyraustinae, Crambinae), Pterophoridae, Tortricidae (Tortricinae), Gelechiidae, Blastobasidae; E. L. Todd (USDA)—Noctuidae, Geometridae.

Suborder RHOPALOCERA

Family PIERIDAE

Genus *Phoebis*

sennae Linnaeus, 1766, Syst. Nat., Ed. 12, p. 764 Isabela, San
(*Papilio Danaus*) (form *sennae* Edwards *vide* Cristóbal, Floreana,
Williams, 1911). Santa Cruz, Santiago,
Fernandina, Eden,
Daphne, Baltra, Pinta

Family NYMPHALIDAE

Genus *Agraulis*

vanillae galapagensis Holland, 1889, Proc. U. S. National Mus., vol. 12, p. 194 (as var.). Isabela, Floreana, San
Cristóbal, Santa Cruz,
Santiago, Fernandina,
Pinta, Baltra, Eden

Genus *Vanessa*

virginiensis Drury, 1773, Ill. Exot. Ent., 2, pl. 13, Isabela
fig. 2 (*Papilio*).
carye Hübner, 1945, Samml. exot. Schmet., vol. 1, pl. San Cristóbal
41 (*Vanessa*).

Family DANĀIDAE

Genus *Danaus*

plexippus Linnaeus, 1758, Syst. Nat. Ed. 10, p. 471 San Cristóbal
(*Papilio Danaus*).

Family LYCAENIDAE

Genus *Leptotes*

parrhasioides Wallengren, 1860, Wien. Ent. Monat., Floreana, San
vol. 4, p. 37 (*Lycaena*). Cristóbal, Isabela,
Fernandina, Santiago,
Española, Pinzón,
Santa Cruz, Eden,
Baltra

Family HESPERIIDAE

Genus *Urbanus*

dorantes galapagensis Williams, 1911, Proc. Calif. San Cristóbal,
Acad. Sci., ser. 4, vol. 1, p. 303. Isabela, Española,
Pinzón, Floreana,
Santiago, Santa Cruz,
Genovesa, Eden,
Baltra

Genus *Erynnis*

funeralis Scudder and Burgess, 1870, Proc. Boston San Cristóbal
Soc. Nat. Hist., vol. 13, p. 293 (*Nisoniades*).
persius Van Duzee, 1933 (not Scudder, 1864),
Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 145
(*Thanaos*). (Van Duzee suggests an error in
labeling).

Genus *Heteropia*

sp. near *imalena* Butler, 1874, Lep. Exot., p. 109, pl. Isabela
40, fig. 1 (*Telegonus*). (Van Duzee, 1933, sug-
gests error in labeling).

Suborder HETEROCERA

Family SPHINGIDAE

Genus *Agrius*

cingulatus Fabricius, 1775, Syst. Ent., p. 545 San Cristóbal,
(*Sphinx*). Isabela, Santa Cruz,
Baltra, Floreana

Genus **Protoparce**

- sexta leucoptera* Rothschild and Jordan, 1903, Nov. Zool. Suppl., vol. 9, p. 79. San Cristóbal, Isabela, Santa Cruz
- rustica calapagensis* Holland, 1889, Proc. U. S. Nat. Mus., vol. 12, p. 195. Floreana, San Cristóbal, Española, Isabela, Baltra, Santa Cruz, Genovesa
- nigrita* Rothschild and Jordan, 1903, Nov. Zool. Suppl., vol. 9, p. 86 (*rustica* ab.).
- postscripta* Clark, 1926, Proc. New England Zool. Club, vol. 9, p. 70 (*rustica* subsp.).

Genus **Erinnyis**

- alope dispersa* Kernbach, 1962, Opusc. Zool., vol. 63, p. 9. Santa Cruz
- ello encantada* Kernbach, 1962, Opusc. Zool., vol. 63, p. 10. Santa Cruz, Floreana, San Cristóbal, Isabela
- obscura conformis* Rothschild and Jordan, 1903, Nov. Zool. Suppl., vol. 9, p. 369. Isabela, Baltra, Santa Cruz, Floreana

Genus **Epistor**

- lugubris delanoi* Kernbach, 1962, Opusc. Zool., vol. 63, p. 11. Santa Cruz, Isabela, Floreana

Genus **Pholus**

- fasciatus tupaci* Kernbach, 1962, Opusc. Zool., vol. 63, p. 12. Santa Cruz
- labruscae yupanquii* Kernbach, 1962, Opusc. Zool., vol. 63, p. 13. Santa Cruz, Floreana

Genus **Xylophanes**

- norfolki* Kernbach, 1962, Opusc. Zool., vol. 63, p. 14. Santa Cruz
- tersa* Linnaeus, 1771, Mant. Plant., vol. 2, p. 538 (*Sphinx*). San Cristóbal

Genus **Celerio**

- lineata florilega* Kernbach, 1962, Opusc. Zool., vol. 63, p. 16. Santa Cruz, Floreana, San Cristóbal, Isabela, Baltra

Family ARCTIIDAE

Genus **Utetheisa**

- galapagensis* Wallengren, 1860, Wien. Ent. Monat., vol. 4, p. 161 (*Euchalia*). Isabela, Santa Cruz, Santiago, Floreana, Baltra
- ornatrix* Linnaeus, 1758, Syst. Nat., Ed. 10, vol. 1, p. 511 (*Phalaena noctua*). Isabela, Baltra

Family NOCTUIDAE

Subfamily AGROTINAE

Genus *Agrotis*

- ipsilon* Hufnagel, 1766, Berl. Mag., vol. 3, p. 416 Isabela, Floreana
(*Phalaena*).
- galapagosensis* Kohler, 1961, An. Soc. Cient. Argen- Floreana
tina, vol. 172, p. 71-72 (subgen. *Scotia*).

Genus *Feltia*

- subterranea* Fabricius, 1794, Ent. Syst., vol. 3, no. 2, Santiago, Isabela
p. 70 (*Noctua*).

Genus *Peridroma*

- conwayi* Richards, 1941, Hancock Pac. Exp., vol. 5, Floreana
p. 235.
- saucia* Hübner, 1803-1808, Samml. Eur. Schmett. Floreana
Noct. f. 378 (*Noctua*).

Genus *Heliothis*

- cystiphora* Wallengren, 1860, Wien. Ent. Monat., vol. Santa Cruz, Santiago,
4, p. 172 (*Anthoecia*).
inflata Wallengren, 1860, Wien. Ent. Monat., vol. Isabela, San
4, p. 172 (*Anthoecia*).
onca Wallengren, 1860, Wien. Ent. Monat., vol. 4, Baltra
p. 172 (*Anthoecia*).
- virescens* Fabricius, 1781, Spec. Ins., vol. 2, p. 216 San Cristóbal,
(*Noctua*). Isabela, Genovesa

Genus *Euxoa*

- williamsi* Schaus, 1923, Zoologica, vol. 5, p. 32. Santa Cruz, Santiago,
Isabela, Baltra

Genus *Lycophotia*

- oceanica* Schaus, 1923, Zoologica, vol. 5, p. 32. Baltra

Subfamily HADENINAE

Genus *Pseudaletia*

- cooperi* Schaus, 1923, Zoologica, vol. 5, p. 33 (*Cir- Santa Cruz
phis*).

Subfamily AMPHIPYRINAE

Genus *Magusa*

- orbifera* Walker, 1857, Cat. Lep. Brit. Mus., vol. 11, Isabela
p. 761 (*Xylina*).

Genus **Platysenta**

- apameoides* Guenée, 1852, Sp. Gen., Noct., vol. 1, p. 229 (*Perigea*). Santiago
- ebba* Schaus, 1923, Zoologica, vol. 5, p. 36 (*Perigea*) n. comb. Santiago, Santa Cruz, Baltra
- ruthae* Schaus, 1923, Zoologica, vol. 5, p. 35 (*Perigea*). Santa Cruz, Isabela

Genus **Harrisonia**

- williamsi* Schaus, 1923, Zoologica, vol. 5, p. 36. Baltra, Santa Cruz

Genus **Prodenia**

- dolichos* Fabricius, 1794, Ent. Syst., vol. 3, p. 95 (*Noctua*). Floreana
- eridania* form *linea* Fabricius, 1794, Ent. Syst., vol. 3, p. 106 (*Noctua*). Floreana

Genus **Spodoptera**

- frugiperda* J. E. Smith, 1797, Lep. Ins. Georgia, vol. 2, p. 191, pl. 96 (*Phalaena*). Santa Cruz
- roseae* Schaus, 1923, Zoologica, vol. 5, p. 33 (*Trachea*), n. comb. Santiago, Isabela, Baltra, Santa Cruz

Genus **Catabena**

- sp.? Schaus, 1923, Zoologica, vol. 5, p. 25. Genovesa

Genus **Amyna**

- insularum* Schaus, 1923, Zoologica, vol. 5, p. 37. Isabela, Santa Cruz, Santiago, Floreana, San Cristóbal, Baltra

Subfamily ACONTIINAE

Genus **Heliocontia**

- margana* Fabricius, 1794, Ent. Syst., vol. 3, no. 2, p. 257 (*Pyralis*). Santa Cruz, Baltra

Genus **Spragueia**

- creton* Schaus, 1923, Zoologica, vol. 5, p. 38. Genovesa, Baltra
- plumbeata* Schaus, 1923, Zoologica, vol. 5, p. 38. Santa Cruz

Subfamily PLUSIINAE (= PHYTOMETRINAE)

Genus **Pseudoplusia**

- includens* Walker, 1857, Cat. Lep. Brit. Mus., vol. 12, p. 914 (*Plusia*). Santa Cruz, Floreana, Sanitago, San Cristóbal, Baltra

Genus **Autoplusia**

- egena galapagensis* Schaus, 1923, Zoologica, vol. 5, p. 41 (as form) (*Syngrapha*). Santiago

Subfamily EUTELIINAE

Genus *Paectes*

- indefatigabilis* Schaus, 1923, *Zoologica*, vol. 5, p. 38. Santa Cruz, Baltra
isabel Schaus, 1923, *Zoologica*, vol. 5, p. 39. Santa Cruz

Subfamily SARROTHRIPINAE

Genus *Characoma*

- nilotica* Rogenhofer, 1882, *Verh. Zool. Bot. Ges. Wien.*, vol. 31, p. 26 (*Sarrothripa*). San Cristóbal

Subfamily CATOCALINAE (*sensu* Richards = NOCTUINAE Schaus)Genus *Melipotis*

- harrisoni* Schaus, 1923, *Zoologica*, vol. 5, p. 42. Santa Cruz, Isabela,
Baltra, Santiago
indomita Walker, 1857, *Cat. Lep. Brit. Mus.*, vol. 13, p. 1161 (*Bolina*). Santa Cruz, Baltra,
Isabela, Floreana
nigrescens Williams, 1911, *Proc. Calif. Acad. Sci.*, ser. 4, vol. 1, p. ?

Genus *Anticarsia*

- gemmatalis* Hübner, 1818, *Zutr. Exot. Schmett.*, vol. 1, p. 26, figs. 153, 154. Santa Cruz, San
Cristóbal, Baltra

Genus *Gonodonta*

- biarmata galapagensis* Todd, 1959, *Tech. Bull.* 1201, U. S. Department of Agriculture, p. 20. Floreana, San
Cristóbal, Santa Cruz

Genus *Epidromia*

- zephyritis* Schaus, 1923, *Zoologica*, vol. 5, p. 43. Floreana, Santa Cruz

Genus *Psorya* (? *Smyra*—see Richards, 1941)

- hadesia* Schaus, 1923, *Zoologica*, vol. 5, p. 44. Baltra, Floreana

Genus *Zale*

- sp. (*viridans* group) Richards, 1941, *Hancock Pac. Exp.*, vol. 5, p. 243. Floreana

Genus *Ascalapha*

- odorata* Linnaeus, 1758, *Syst. Nat.*, ed. 10, p. 505 Floreana
(*Phalaena Bombyx*).

Genus *Anomis*

- professorum* Schaus, 1923, *Zoologica*, vol. 5, p. 42. Isabela, Baltra, Santa
Cruz, San Cristóbal

Genus *Mocis*

- incurvalis* Schaus, 1923, *Zoologica*, vol. 5, p. 41. Floreana, Santa Cruz,
Baltra
latipes Guenée, 1852, *Sp. Gen., Noct.*, vol. 3, p. 314 Santa Cruz, Baltra
(*Remigia*).

Genus **Rivula**

dubiosa Schaus, 1923, *Zoologica*, vol. 5, p. 44. Santa Cruz

Family GEOMETRIDAE

Genus **Camptogramma**

stellata Guenée, 1857, *Uranides et Phalenites*, vol. 2, p. 443 (*Scotosia*). Santa Cruz, Baltra

Genus **Cosymbia**

impudens Warren, 1904, *Nov. Zool.*, vol. 11, p. 487 (*Perixera*). Santa Cruz, Santiago, Isabela, Gardner

Genus **Sericosema**

lignata Warren, 1905, *Nov. Zool.*, vol. 12, p. 362. San Cristóbal

Family PYRALIDAE

Subfamily PYRAUSTINAE

Genus **Hymenia**

recurvalis Fabricius, 1775, *Syst. Ent.*, 644 (*Phalaena*). Baltra

Genus **Pilocrocis**

ramentalis Lederer, 1863, *Wien. Ent. Monat.*, vol. 7, p. 430. Santiago, Baltra

Genus **Herpetogramma**

chathamalis Schaus, 1923, *Zoologica*, vol. 5, p. 45 (*Pilocrocis*) (n. comb.). San Cristóbal, Santa Cruz, Baltra

Genus **Asciodes**

gordialis Guenée, 1854, *Delt. et Pyral.*, p. 374. Santa Cruz, Isabela, San Cristóbal, Baltra

Genus **Pleuroptya**

silicalis Guenée, 1854, *Delt. et Pyral.*, p. 349 (*Botys*) (n. comb.). Santa Cruz, Santiago, Isabela, San Cristóbal, Baltra

Genus **Polygrammodes**

elevata Fabricius, 1793, *Ent. Syst.* III, 2, no. 325, p. 216 (*Phalaena*). Santiago

Genus **Pyrausta**

eneanalis Schaus, 1923, *Zoologica*, vol. 5, p. 45. Santa Cruz, Baltra, Genovesa

Genus **Piletocera**

bufalis Guenée, 1854, *Delt. et Pyral.*, p. 245 (*Stenia*). Santa Cruz

Genus **Beebea**

guglielmi Schaus, 1923, *Zoologica*, vol. 5, p. 46. San Cristóbal

Subfamily CRAMBINAE

Genus **Euchrombium**

ocelleus Haworth, 1811, Lep. Brit., p. 486 (*Palparia*). Santa Cruz, Baltra

Subfamily PHYCITINAE

Genus **Etiella**

zinckenella (Treit.) 1832, Schmett. Eur., vol. 9, no. 1, p. 201. Santa Cruz, Baltra

Genus **Fundella**

agapella Schaus, 1923, Zoologica, vol. 5, p. 47. Isabela

Genus **Fulrada**

carpasella Schaus, 1923, Zoologica, vol. 5, p. 47 Santa Cruz
(*Piesmopoda*).

Genus **Tota**

galdinella Schaus, 1923, Zoologica, vol. 5, p. 46 Santa Cruz, Baltra,
(*Elasmopalpus*). Santiago

Genus **Nicetiodes**

apianella Schaus, 1923, Zoologica, vol. 5, p. 48. Santa Cruz, Baltra,
Genovesa

Family PTEROPHORIDAE

Genus **Trichoptilus**

derelictus Meyrick, 1926, Trans. Ent. Soc. Lond., Floreana
vol. 74, p. 276.

Genus **Pterophorus**

nephogenes Meyrick, 1926, Trans. Ent. Soc. London, Floreana, Isabela
vol. 74, p. 276.

sp. Schaus, 1923, Zoologica, vol. 5, p. 30. Daphne Major, Santa
Cruz

Family TORTRICIDAE

Subfamily TORTRICINAE

Genus **Platynota**

colobota Meyrick, 1926, Trans. Ent. Soc. Lond., Isabela
74, p. 276.

Subfamily OLETHREUTINAE

Genus **Strepsicrates**

smithiana Walsingham, 1892, Proc. Zool. Soc. Lon- Baltra
don, p. 506.

spp. Schaus, 1923, Zoologica, vol. 5, p. 31 (3 species). Baltra, Santiago

Genus **Crociosema**

plebiana Zeller, 1847, Isis, p. 721. Baltra, Isabela.

synneurota Meyrick, 1926, Trans. Ent. Soc. Santa Cruz
Lond., vol. 74, p. 276.

Family GELECHIIDAE

Genus *Aristotelia*

howardi Walsingham, 1909, Biol. Centr. Am. Ins. Baltra
Lep.-Heter., IV, p. 23.
naxia Meyrick, 1926, Trans. Ent. Soc. London, vol. Floreana
74, p. 277.

Genus *Stegasta*

bosqueella Chambers, 1875, Canad. Ent., vol. 7, p. Santa Cruz
92 (*Occophora*).

Genus *Gelechia*

gnathodoxa Meyrick, 1926, Trans. Ent. Soc. Lon- Santiago
don, vol. 74, p. 277.
protozona Meyrick, 1926, Trans. Ent. Soc. London, Isabela
vol. 74, p. 277.

Family BLASTOBASIDAE

Genus *Blastobasis*

crotopila Meyrick, 1926, Trans. Ent. Soc. London, Santiago
vol. 74, p. 278.

Family YPONOMEUTIDAE

Genus *Atteva*

hysginiella Wallengren, 1861, Freg. Eugenies Resa, Isabela, Santa Cruz,
vol. 2, p. 386. Santiago, San
sylypharis Butler, 1877, Proc. Zool. Soc. Lond., Cristóbal, Baltra,
1877, p. 87. Daphne Major
monerythra Meyrick, 1926, Trans. Ent. Soc. London, Floreana
vol. 74, p. 278.

Family TINEIDAE

Genus *Xylesthia*

pruniramiella Clemens, 1859, Proc. Acad. Nat. Sci. Santiago
Philadelphia, vol. 11, p. 259.

Order DIPTERA

Comprehensive reports on Galápagos Diptera may be found in Coquillett (1901), Johnson (1924), and Curran (1932, 1934). Authority for the synonymy of *Pseudolfersia diomedae* Coquillett with *Olfersia aenescens* Thomson, is Maa (1963), and for that of *Ceratopogon galapagensis* Coquillett with *Forcipomyia fuliginosa* Meigen, Wirth (1956). This section has been read by R. H. Foote, C. W. Sabrosky, G. C. Steyskal, Alan Stone, and W. W. Wirth.

Family CHIRONOMIDAE

Genus *Chironomus*

- sp., Johnson, 1924, *Zoologica*, vol. 5, p. 86. Baltra
 sp., Curran, 1934, *Proc. Calif. Acad. Sci.*, ser. 4, vol. San Cristóbal
 21, p. 149.

Genus *Tanypus*

- sp., Johnson, 1924, *Zoologica*, vol. 5, p. 86. Baltra

Genus *Thalassomya*

- longipes* Johnson, 1924, *Zoologica*, vol. 5, p. 86 (*Ga-*
lapagomyia). Santa Cruz, Floreana

Genus *Clunio*

- schmitti* Stone & Wirth, 1947, *Proc. Ent. Soc. Wash-*
ington, vol. 49, p. 217. Fernandina

Family TIPULIDAE

Genus *Erioptera*(Subgenus *Trimiera*)

- pilipes* Fabricius, 1787, *Mantissa Insectorum*, vol. 2, San Cristóbal
 p. 324 (*Tipula*).

Genus *Limonia*(Subgenus *Dicranomyia*)

- galapagoensis* Alexander, 1962, *Opuscula Zoologica*, Santa Cruz, San
 vol. 61, p. 1. Cristóbal

(Subgenus *Geranomyia*)

- stigmatica* Philippi, 1865, *Verhandl. Kais. Kon.* Isabela
Zool.-bot. Ges. Wien, vol. 15, p. 598 (*Plettusa*).
tibialis Loew, 1851, *Linn. Ent.*, vol. 5, p. 397 (*Apo-*
rosa). Santa Cruz, San
 Cristóbal, Floreana

Family CULICIDAE

Genus *Aedes*

- taeniorhynchus* Wiedemann, 1821, *Diptera Exot.*, p. Genovesa, Isabela,
 43 (*Culex*). Santiago, Rábida,
 Santa Cruz, Baltra,
 San Cristóbal,
 Floreana

Family CERATOPOGONIDAE

Genus *Forcipomyia*

- fuliginosa* Meigen, 1818, *Syst. Besch. Eur. Zweifl.* Isabela, Baltra, Santa
Ins., vol. 1, p. 86 (*Ceratopogon*). Cruz, Gardner
galapagensis Coquillett, 1901, *Proc. Washington*
Acad. Sci., vol. 3, p. 372 (*Ceratopogon*).

Family SCIARIDAE

Genus *Sciara*

- sp., Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 149. Baltra

Family STRATIOMYIDAE

Genus *Pelagomyia*

- dubia* Curran, 1932, Nyt Mag. Naturvidensk., vol. 71, p. 348. Isabela, Santiago, Santa Cruz, Baltra,
albitalus Coquillett (not Williston), 1901, Proc. Washington Acad. Sci., vol. 3, p. 373. San Cristóbal, Floreana

Genus *Nemotelus*

- acutirostris* Loew, 1863, Berliner Ent. Zeitschr., vol. 7, p. 8. Isabela
albiventris Thomson, 1869, Freg. Eugenies Resa, Zool., vol. 1, p. 462. Isabela

Family TABANIDAE

Genus *Tabanus*

- vittiger* Thomson, 1869, Freg. Eugenies Resa, Zool., vol. 1, p. 451. Isabela, Santa Cruz, San Cristóbal, Floreana

Family BOMBYLIIDAE

Genus *Villa*

- brachialis* Thomson, 1869, Freg. Eugenies Resa, Zool., vol. 1, p. 484 (*Anthrax*). Isabela
curvirostris Thomson, 1869, Freg. Eugenies Resa, Zool., vol. 1, p. 483 (*Anthrax*). Galápagos Islands
primitiva Walker, 1849, List Diptera Brit. Mus., vol. 2, p. 257 (*Anthrax*). Santa Cruz, Santa Fé, Floreana
lateralis Thomson, 1869, Freg. Eugenies Resa, Zool., vol. 1, p. 482 (*Anthrax*).
nudiuscula Coquillett (not Thomson), 1901, Proc. Washington Acad. Sci., vol. 3, p. 373 (*Anthrax*).

Genus *Lepidanthrax*

- tincta* Thomson, 1869, Freg. Eugenies Resa, Zool., vol. 1, p. 483 (*Anthrax*). Santa Cruz, Bartholomew

Family ASILIDAE

Genus *Ommatius*

- marginellus* Fabricius, 1781, Spec. Ins., vol. 2, p. 464 (*Asilus*). Santiago, Santa Cruz

Family EMPIDIDÆ

Genus *Drapetis*

- zonalis* Curran, 1932, *Nyt Mag. Naturvidensk.*, vol. Santa Cruz, Floreana
71, p. 351.

Family DOLICHOPODIDÆ

Genus *Condylostylus*

- dentatacauda* Van Duzee, 1933, *Proc. Calif. Acad. Sci.*, ser. 4, vol. 21, p. 66. Santiago
tibialis Thomson, 1869, *Freg. Eugenes Resa, Zool.*, Fernandina, Isabela
vol. 1, p. 507 (*Auchincura*).

Genus *Chrysotus*

- brevicornis* Van Duzee, 1933, *Proc. Calif. Acad. Sci.*, Santa Cruz
ser. 4, vol. 21, p. 68.
brevispina Van Duzee, 1933, *Proc. Calif. Acad. Sci.*, Isabela, Santa Cruz,
ser. 4, vol. 21, p. 68. San Cristóbal
latifacies Van Duzee, 1933, *Proc. Calif. Acad. Sci.*, Santa Cruz
ser. 4, vol. 21, p. 69.

Genus *Asyndetus*

- interruptus* Loew, 1861, *Ent. Monatschr.*, vol. 5, p. Pinta
37.
versicolor Johnson, 1924, *Zoologica*, vol. 5, p. 88. Baltra

Genus *Aphrosylus*

- setosus* Curran, 1932, *Nyt Mag. Naturvidensk.*, vol. Floreana
71, p. 352.

Genus *Paracleius*

- ? *pusillus* Macquart, 1844, *Diptera Exot.*, suppl. 1, p. Fernandina, Isabela
121 (*Dolichopus*).

Genus *Vanduzecia*

- cheesmani* Parent, 1934, *Mem. Soc. Sci. Nat. & Santiago
Math. Cherbourg*, vol. 41, p. 258.

Family PHORIDÆ

Genus *Dohrniphora*

- cornuta* Bigot, 1856, *Sagra's Hist. Fis. Nat. Cuba*, Baltra, Floreana
vol. 7, p. 348.
venusta Coquillett, 1895, *Canadian Ent.*, vol. 27,
p. 107.
crockeri Van Duzee, 1933, *Proc. Calif. Acad. Sci.*,
ser. 4, vol. 21, p. 70.
willowsi Van Duzee, 1933, *Proc. Calif. Acad. Sci.*, Baltra
ser. 4, vol. 21, p. 70.

Genus **Megaselia**

scalaris Loew, 1866, Berliner Ent. Zeitschr., vol. 10, Genovesa
p. 53 (*Phora*).

Family SYRPHIDAE

Genus **Allograpta**

splendens Thomson, 1869, Freg. Eugenies Resa, Santiago, San
Zool., vol. 1, p. 501 (*Syrphus*). Cristóbal, Floreana

Genus **Baccha**

clavata Fabricius, 1794, Ent. Syst., vol. 4, p. 298 Isabela, Santiago,
(*Syrphus*). San Cristóbal,
facialis Thomson, 1869, Freg. Eugenies Resa, Floreana
Zool., vol. 1, p. 504.

Genus **Mesograpta**

crockeri Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, Isabela, Santiago,
vol. 21, p. 154. San Cristóbal,
duplicata Coquillett (not Wiedemann), 1901, Floreana
Proc. Washington Acad. Sci., vol. 3, p. 374.

Genus **Xanthandrus**

sp., Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, vol. Pinta
21, p. 155.
albomaculatus Smith, 1877, Proc. Zool. Soc. London, Floreana
1877, p. 84 (*Syrphus*).

Family OTITIDAE

Genus **Acrosticta**

scrobiculata Loew, 1867, Berliner Ent. Zeitschr., vol. Floreana
11, p. 293.

Genus **Euxesta**

galapagensis Curran, 1934, Proc. Calif. Acad. Sci., Española
ser. 4, vol. 21, p. 156.
nitidiventris Loew, 1873, Mon. No. Amer. Diptera, Isabela, Santa Cruz,
vol. 2, p. 157. Floreana
notata Wiedemann, 1830, Ausser. Zweifl. Insekten, Floreana
vol. 2, p. 462 (*Ortalis*).

Genus **Pareuxesta**

hyalinata Coquillett, 1901, Proc. Washington Acad. Isabela
Sci., vol. 3, p. 377.
latifasciata Coquillett, 1901, Proc. Washington Acad. Genovesa, Isabela
Sci., vol. 3, p. 376.
intermedia Coquillett, 1901, Proc. Washington
Acad. Sci., vol. 3, p. 377.

- obscura** Coquillett, 1901, Proc. Washington Acad. Sci., vol. 3, p. 377. Daphne Major, Isabela

Family TEPHRITIDAE

Genus **Paroxyna**

- crockeri** Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 157, fig. 1. Isabela, Santiago, Rábida, Santa Cruz, Baltra, Floreana

Genus **Euaresta**

- aesia** Walker, 1849, List Diptera Brit. Mus., vol. 4, p. 1006 (*Trypeta*). Galápagos Islands

Family SPHAEROCERIDAE

Genus **Leptocera**

- discalis** Malloch, 1912, Smithsonian Misc. Coll., vol. 59, p. 433. Floreana

Genus **Sphaerocera**

- galapagensis** Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 158. San Cristóbal

Family DROSOPHILIDAE

Genus **Drosophila**

- immigrans** Sturtevant, 1921, Carnegie Inst. Washington, Publ. 301, p. 83. Santiago, Floreana
- nebulosa** Sturtevant, 1916, Ann. Ent. Soc. Amer., vol. 9, p. 327. San Cristóbal
- simulans** Sturtevant, 1919, Psyche, vol. 26, p. 153. San Cristóbal, Baltra
- willistoni** Sturtevant, 1916, Ann. Ent. Soc. Amer., vol. 9, p. 327. Baltra
- sp., Wheeler, 1961, Ann. Ent. Soc. Amer., vol. 54, p. 750. Santa Cruz

Genus **Gitona**

- braziliensis** Costa Lima, 1950, Arthropoda, vol. 1, p. 251. Santa Cruz

Family EPHYDRIDAE

Genus **Dimecoenia**

- gilvipes** Coquillett, 1901, Proc. Washington Acad. Sci., vol. 3, p. 377 (*Ephydra*). Isabela

Genus **Scatella**

- galapagensis** Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 161. San Cristóbal

Family CANACEIDAE

Genus **Canace**

- maritima* Wirth, 1951, Occ. Pap. Bernice P. Bishop Mus., vol. 20, p. 263. Bartholomew
- snodgrassii* Coquillett, 1901, Proc. Washington Acad. Sci., vol. 3, p. 378. Fernandina, Isabela

Genus **Nocticanace**

- galapagensis* Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 160 (*Procanace*). Isabela, Santa Cruz, Wenman, Tower, Abingdon, Hood

Family CHLOROPIDAE

Genus **Hippelates**

- galapagensis* Curran, 1932, Nyt Mag. Naturvidensk., vol. 71, p. 356. Floreana
- pugio* Loew, 1872, Berliner Ent. Zeitschr., vol. 16, p. 279. Isabela

Genus **Cadrema**

- pallida* Loew, 1865, Berliner Ent. Zeitschr., vol. 9, p. 184 (*Hippelates*). Baltra

Genus **Oscinella**

- galapagensis* Curran, 1932, Nyt Mag. Naturvidensk., vol. 71, p. 357. Floreana

Family MILICHIIDAE

Genus **Desmometopa**

- m-nigrum* Zetterstedt, 1848, Diptera Scand., vol. 7, p. 2743 (*Agromyza*). Baltra

Family TETHINIDAE

Genus **Trixoscelis**

- costalis* Coquillett, 1901, Proc. Washington Acad. Sci., vol. 3, p. 378 (*Rhinoessa*). Isabela, Floreana, Española

Genus **Tethina**

- insulans* Curran, 1932, Nyt Mag. Naturvidensk., vol. 71, p. 359. Floreana

Family ODINIIDAE

Genus **Odinia**

- williamsi* Johnson, 1924, Zoologica, vol. 5, p. 90. Pinta, Rábida, Santa Cruz, Baltra, Santa Fé, Floreana

Family AGROMYZIDAE

Genus **Cerodontha**

- dorsalis** Loew, 1863, Berliner Ent. Zeitschr., vol. 7, Santa Cruz, Floreana
p. 54 (*Odontocera*).

Family MUSCIDAE

Genus **Xenocoenosia**

- devia** Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 164. Santiago, San
Cristóbal

Genus **Fannia**

- canicularis** Linnaeus, 1761, Fauna Suecica, p. 1871 Isabela
(*Musca*).
sp., Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 164 (? *pusio* Wiedemann).

Genus **Ophyra**

- aenescens** Wiedemann, 1830, Ausser. Zweifl. Insek- Fernandina, Isabela,
ten, vol. 2, p. 435 (*Anthomyia*). Baltra, Floreana
setia Walker, 1849, List Diptera Brit. Mus., vol. 4, p. 956 (*Anthomyia*).

Genus **Synthesiomyia**

- nudiseta** Wulp, 1833, Tijf. v. Ent., vol. 26, p. 42 Isabela, Floreana
(*Cyrtoneura*).
brasilliana Brauer & Bergenstamm, 1893, Denk-
schr. Math. Nat. Kais. Akad. Wiss. Wien, vol. 60, p. 96.

Genus **Lispe**

- sp., Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 165. Floreana

Genus **Musca**

- domestica** Linnaeus, 1758, Systema Naturae, ed. 10, Baltra, Floreana
p. 596.

Genus **Stomoxys**

- calcitrans** Linnaeus, 1758, Systema Naturae, ed. 10, Baltra, San Cristóbal,
p. 604. Floreana

Genus **Morellia**

- ochricornis** Wiedemann, 1830, Aussereur. Zweifl. In- Floreana
sekten, vol. 2, p. 408.

Family CALLIPHORIDAE

Genus **Viridinsula**

- pionia** Walker, 1849, List Diptera Brit. Mus., vol. 4, Santa Cruz, Floreana
p. 880 (*Musca*).

- deceptor** Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, vol. 21, p. 166. Isabela, Seymour, Floreana, Española
panionia Curran (not Walker), 1932, Nyt Mag. Naturvidensk., vol. 71, p. 361.

Genus **Cochliomyia**

- macellaria** Fabricius, 1775, Systema Ent., p. 776. Isabela, Santa Cruz, Floreana
phanda Walker, 1849, List Diptera Brit. Mus., vol. 4, p. 869 (*Musca*).
quadrisignata Thomson, 1869, Freg. Eugenes Resa, Zool., vol. 1, p. 554 (*Lucilia*).

Family SARCOPHAGIDAE

Genus **Opsophytopsis**

- inoa** Walker, 1849, List Diptera Brit. Mus., vol. 4, p. 832 (*Sarcophaga*). Darwin, Fernandina, Isabela, Santiago, Santa Cruz, San Cristóbal, Floreana, Española
insularis Townsend, 1917, Insecutor Inscitae Mens., vol. 5, p. 163.

Genus **Sarcophagula**

- occidua** Fabricius, 1794, Ent. Syst., p. 315 (*Musca*). Santiago, San Cristóbal, Floreana

Genus **Prosthetocirca**

- cana** Townsend, 1917, Proc. Biol. Soc. Washington, vol. 30, p. 196. Santa Cruz, Española

Genus **Sarcophaga**

- isla** Curran, 1934, Proc. Calif. Acad. Sci., 4th ser., vol. 21, p. 169, fig. 3. Española, Gardner
plinthopyga Wiedemann, 1830, Aussereur. Zweifflug. Insekten, vol. 2, p. 360. Floreana
quadriforceps Curran, 1932, Nyt Mag. Naturvidensk., vol. 71, p. 363.
reversa Aldrich, 1916, Sarcophaga and Allies, p. 127. Baltra
taitensis Schiner, 1868, Novara Reise, Diptera, p. 314. Isabela, Pinzón, San Cristóbal, Floreana
obtusifrons Thomson, 1869, Freg. Eugenes Resa, Zool., vol. 1, p. 536.
violenta Walker, 1849, List Diptera Brit. Mus., vol. 4, p. 826. Isabela, Santa Cruz, Baltra, Santa Fé
galapagensis Townsend, 1917, Proc. Biol. Soc. Washington, vol. 30, p. 195.
williamsi Curran, 1934, Proc. Calif. Acad. Sci., 4th ser., vol. 21, p. 170, fig. 4. Floreana

Family TACHINIDÆ

Genus *Galapagosia*

- minuta* Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, Santa Cruz
vol. 21, p. 172.

Family HIPPOBOSCIDÆ

Genus *Olfersia*

- aenescens* Thomson, 1869, Freg. Eugenies Resa, Isabela, Santa Cruz,
Zool., vol. 1, p. 610. Española
- diomedæ* Coquillett, 1901, Proc. Washington
Acad. Sci., vol. 3, p. 379 (*Pseudolfersia*).
- fossulata* Macquart, 1843, Mem. Soc. Sci. Lille, 1842, Wolf, Daphne Major
p. 434.
- spinifera* Leach, 1817, on genera and species Eprobosc. Ins., p. 11, pl. 26 (1-3); 1818, Mem. Wernerian Nat. Hist. Soc., vol. 2, p. 557, pl. 24, figs. 1-3. Genovesa, Floreana

Genus *Lynchia*

- nigra* Perty, 1833, Delectus Anim. Artic. Brasil, vol. 3, p. 190, pl. 37, fig. 15 (*Hippobosca*). Santa Cruz
- intertropica* Walker, 1849, List Diptera Brit. Mus., vol. 4, p. 1144 (*Ornithomyia*).
- americanus*, Johnson (not Leach), 1924, Zoologica, vol. 5, p. 91 (*Ornithoponus*).
- albipennis* Say, 1823, Jour. Acad. Nat. Sci. Philadelphia, vol. 3, p. 101 (*Olfersia*). Genovesa, Fernandina, Santiago, Santa Cruz.
- intertropicus*, Johnson (not Walker), 1924, Zoologica, vol. 5, p. 91 (*Ornithoponus*). Seymour

Genus *Microlynchia*

- galapagoensis* Bequaert, 1955, Entom. Americana, vol. 35, p. 384. Santa Cruz, Española
- pusilla* Speiser, 1902, Zeitschr. Syst. Hym. Dipt., vol. 2, p. 157 (*Lynchia*). Española

Order HYMENOPTERA

The leading references on Hymenoptera other than ants are by Rohwer (1924) and Williams (1926). Formicidae were treated by Wheeler (1919 and 1924) and by Stitz (1932). Dr. William L. Brown kindly reviewed the present manuscript and made valuable corrections and proposed new synonymy.

Family CHALCIDIDÆ

Genus *Chalcis*

- sp., Rohwer, 1924, Zoologica, vol. 5, p. 175. Baltra

Family BETHYLIDAE

Genus *Scleroderma*

- galapagense* Brues, 1919, Proc. Calif. Acad. Sci., ser. 4, vol. 2, p. 309. Santiago

Family THYNNIDAE

Genus *Agriomyia*

- vagans* Smith, 1877, Proc. Zool. Soc. London, 1877, Floreana p. 83.

Family MUTILLIDAE

Genus *Photopsis*

- galapagensis* Williams, 1926, Proc. Calif. Acad. Sci., Baltra ser. 4, vol. 18, p. 350.

Family FORMICIDAE

Genus *Cylindromyrmex*

- striatus tibialis* Stitz, 1932, Nyt Mag. f. Naturvidensk., vol. 71, p. 367. Floreana
- williamsi* Wheeler, 1924, Zoologica, vol. 10, p. 101, Santa Cruz, Baltra fig. 19b, c.
- striatus* Wheeler (not Mayr, 1870), 1919, Proc. Calif. Acad. Sci., ser. 4, vol. 2, p. 266.

Genus *Hypoponera*

- beebei* Wheeler, 1924, Zoologica, vol. 10, p. 107, fig. 21. Genovesa

Genus *Odontomachus*

- bauri* Emery, 1891, Ann. Soc. Ent. France, vol. 60, San Cristóbal, p. 591. Floreana
- haematoda* Stitz (not Linnaeus), 1932, Nyt Mag. Naturvidensk., vol. 71, p. 369.

Genus *Pheidole*

- sp., Wheeler, 1919, Proc. Calif. Acad. Sci., ser. 4, vol. 2, p. 271. Isabela
- williamsi seymourensis* Wheeler, 1924, Zoologica, Baltra, Daphne vol. 5, p. 108.
- williamsi williamsi* Wheeler, 1919, Proc. Calif. Acad. Sci., ser. 4, vol. 2, p. 267. Santa Cruz

Genus *Monomorium*

- floricola* Jerdon, 1851, Madras J. Litt. Sci., vol. 17, Genovesa p. 107 (*Atta*).

- **florcanum* Stitz, 1932, *Nyt Mag. Naturvidensk.*, Floreana
vol. 71, p. 368, figs. 1, 2.
- pharaonis* Linnaeus, 1758, *Systema Naturae*, ed. 10, Pinta, Santa Cruz
vol. 1, p. 580 (*Formica*).

Genus **Solenopsis**

- geminata galapageia* Wheeler, 1919, *Proc. Calif. Acad. Sci.*, ser. 4, vol. 2, p. 272. Floreana
- globularia pacifica* Wheeler, 1919, *Proc. Calif. Acad. Sci.*, ser. 4, vol. 2, p. 272. Genovesa, Isabela,
Daphne, Santa Cruz
- globularia rubida* Wheeler, 1919, *Proc. Calif. Acad. Sci.*, ser. 4, vol. 2, p. 273. Española
- saevisima* F. Smith, 1855, *Trans. Ent. Soc. London*, 1855, p. 166, pl. 13, fig. 18 (*Myrmica*). Santa Cruz

Genus **Tetramorium**

- guineense* Fabricius, 1793, *Ent. Syst.*, vol. 2, p. 357 (*Formica*). Genovesa, Isabela,
Santa Cruz, San
Cristóbal
- simillimum* F. Smith, 1851, *List Hymenoptera Brit. Mus.*, vol. 6, p. 118 (*Myrmica*). Santiago, Floreana

Genus **Crematogaster**

- brevispinosa chathamensis* Wheeler, 1933, *Proc. Calif. Acad. Sci.*, ser. 4, vol. 21, p. 58 (subgenus *Orthocrema*). San Cristóbal

Genus **Conomyrma**

- pyramica albemarlensis* Wheeler, 1919, *Proc. Calif. Acad. Sci.*, ser. 4, vol. 2, p. 275. Isabela, Rábida,
Eden, Santa Cruz,
Baltra

Genus **Tapinoma**

- melanocephalum* Fabricius, 1793, *Ent. Syst.*, vol. 2, p. 353 (*Formica*). Genovesa, Santa Cruz,
San Cristóbal,
Española

Genus **Paratrechina**

- fulva nesiotis* Wheeler, 1919, *Proc. Calif. Acad. Sci.*, ser. 4, vol. 2, p. 277 (*Prenolepis*). Isabela, Santiago,
Santa Cruz, Española
- longicornis* Latreille, 1802, *Hist. Nat. Fourmis*, p. 113 (*Formica*). Santa Cruz, San
Cristóbal, Floreana,
Española, Gardner
- vividula edenensis* Wheeler, 1924, *Zoologica*, vol. 5, p. 111 (*Prenolepis v. guatemalensis* variety). Eden

* New synonymy, *vide* W. L. Brown, 1964.

- vividula itinerans* Forel, 1901, Mitt. naturh. Mus. Santa Cruz, San
Hamburg, vol. 18, p. 81. Cristóbal

Genus **Camponotus**

Subgenus **Pseudocolobopsis**

- macilentus albemarlensis* Wheeler, 1919, Proc. Isabela
Calif. Acad. Sci., ser. 4, vol. 2, p. 284.
- macilentus altinota* Stitz, 1932, Nyt Mag. Naturvi- Floreana
densk., vol. 71, p. 370, fig. 3.
- macilentus barringtonensis* Wheeler, 1919, Proc. Santa Fé
Calif. Acad. Sci., ser. 4, vol. 2, p. 282.
- macilentus bindloensis* Wheeler, 1919, Proc. Calif. Marchena
Acad. Sci., ser. 4, vol. 2, p. 286.
- macilentus castellanus* Wheeler, 1924, Zoologica, Genovesa
vol. 10, p. 116, fig. 25.
- macilentus duncanensis* Wheeler, 1919, Proc. Calif. Pinzón, Floreana
Acad. Sci., ser. 4, vol. 2, p. 283.
- macilentus hoodensis* Wheeler, 1919, Proc. Calif. Española
Acad. Sci., ser. 4, vol. 2, p. 285.
- macilentus jacobensis* Wheeler, 1919, Proc. Calif. Santiago
Acad. Sci., ser. 4, vol. 2, p. 280.
- macilentus macilentus* F. Smith, 1877, Proc. Zool. Floreana
Soc. London, 1877, p. 83.
- macilentus narboroensis* Wheeler, 1919, Proc. Calif. Fernandina
Acad. Sci., ser. 4, vol. 2, p. 286.
- macilentus pervicus* Wheeler, 1924, Zoologica, vol. Santa Cruz
10, p. 115.
- macilentus sapphirinus* Wheeler, 1924, Zoologica, Santa Cruz, Baltra
vol. 10, p. 114, fig. 24.
- macilentus vulcanalis* Wheeler, 1919, Proc. Calif. Isabela
Acad. Sci., ser. 4, vol. 2, p. 284.
- macilentus wollebaeki* Stitz, 1932, Nyt Mag. Natur- Floreana
vidensk., vol. 71, p. 371, fig. 4.

Subgenus **Myrmocladoecus**

- planus fernandinensis* Wheeler, 1919, Proc. Calif. Fernandina
Acad. Sci., ser. 4, vol. 2, p. 296.
- planus fidelis* Wheeler, 1919, Proc. Calif. Acad. Sci., Santa Fé
ser. 4, vol. 2, p. 295.
- planus hephaestus* Wheeler, 1933, Proc. Calif. Acad. Isabela
Sci., ser. 4, vol. 21, p. 59.
- planus indefessus* Wheeler, 1919, Proc. Calif. Acad. Santa Cruz
Sci., ser. 4, vol. 2, p. 294.

- planus isabelensis** Wheeler, 1919, Proc. Calif. Acad. Sci., ser. 4, vol. 2, p. 293. Isabela
- planus peregrinus** Emery, 1893, Ann. Soc. Ent. France, vol. 63, p. 91. San Cristóbal, Floreana
- planus pinzonensis** Wheeler, 1919, Proc. Calif. Acad. Sci., ser. 4, vol. 2, p. 297. Pinzón
- planus planus** F. Smith, 1877, Proc. Zool. Soc. London, 1877, p. 83. Floreana
- planus sansalvadorensis** Wheeler, 1924, Zoologica, vol. 10, p. 119, fig. 27. Santiago
- planus santacruzensis** Wheeler, 1919, Proc. Calif. Acad. Sci., ser. 4, vol. 2, p. 294. Santa Cruz, Baltra

Family VESPIDAE

Genus *Odynerus*

- galapagensis** Williams, 1926, Proc. Calif. Acad. Sci., ser. 4, vol. 2, p. 353 (subgenus *Pachyodynerus*). San Cristóbal

Family POMPILIDAE

Genus *Aporinellus*

- galapagensis** Rohwer, 1924, Zoologica, vol. 5, p. 174. Baltra

Family SPHECIDAE

Genus *Nitela*

- darwinii** Turner, 1916, Ann. Mag. Nat. Hist., ser. 8, vol. 18, p. 345. Floreana

Genus *Tachysphex*

- galapagensis** Rohwer, 1924, Zoologica, vol. 5, p. 173. Isabela, Baltra

Family APIDAE

Genus *Xylocopa*

- darwinii** Cockerell, 1926, Ann. Mag. Nat. Hist., ser. 9, vol. 17, p. 659. Isabela, Santiago, Pinzón, Santa Cruz,
- mordax** Smith (not Smith, 1874), 1877, Proc. Zool. Soc. London, 1877, p. 83. Baltra, San Cristóbal, Floreana, Gardner
- brasilianorum** Maidl (not Linnaeus, 1767), 1912, Ann. K. K. Naturhist. Hofmus., vol. 26, p. 312.
- transitoria** Brues (not Perez, 1901), 1924, Zoologica, vol. 5, p. 125.
- colona** Rohwer (not Lepeletier, 1841), 1924, Zoologica, vol. 5, p. 173.

ANNOTATED BIBLIOGRAPHY OF GALÁPAGOS ENTOMOLOGY

AGASSIZ, A.

1892. General sketch of the expedition of the *Albatross* from February to May, 1891. Bulletin of the Museum of Comparative Zoology, vol. 23, pp. 1-89.

ALEXANDER, C. P.

1962. The crane flies of the Galapagos Islands (Tipulidae, Diptera). Opuscula Zoologica, vol. 61, pp. 1-5, 6 figs. [*Limonia* (*Dicranomyia*) *galapagoensis*, n. sp., (Santa Cruz Island) (p. 1); *Limonia* (*Geranomyia*) *tibialis* (Loew), (Santa Cruz and San Cristobal islands) (p. 3); *Erioptera* (*Trimicra*) *pilipes* (Fabricius), var., (San Cristobal Island) (p. 4).]

ANONYMOUS

1901. Papers from the Hopkins Stanford Galapagos Expedition, 1898-1899. I. Introduction. Proceedings of the Washington Academy of Science, vol. 3, pp. 363-364.

ASAHINA, S.

1961. Dragonflies taken by Dr. Sekiguchi in the Galapagos Islands. Publication of the Entomological Laboratory, College of Agriculture, University of Osaka Sakai, no. 6, pp. 1-3, 1 fig.

BANKS, N.

1901. Papers from the Hopkins Stanford Galapagos Expedition, 1898-1899. V. Entomological Results (5): Thysanura and Termitidae. Proceedings of the Washington Academy of Science, vol. 3, pp. 541-546. [Thysanura: *Lepisma galapagoensis*, n. sp. (p. 541, figs. 47-50), (Hood Island); *L. insularis*, n. sp. (p. 543, figs. 51-52), (Narborough and Albemarle islands); Termitidae: *Calotermes galapagoensis*, n. sp. (p. 544, figs. 55-56), (Wenman Island); *Calotermes pacificus*, n. sp. (p. 545, fig. 57), (Albemarle and Narborough islands).]
1924. Neuroptera from the Williams Galapagos Expedition. Zoologica, vol. 5, pp. 117-180. [4 species in 3 families (Myrmeleonidae, Chrysopidae, Hemerobiidae): *Myrmeleon perpilosus*, n. sp. (Indefatigable Island); *Chrysopa nigripilosa*, n. sp. (South Seymour Island); *Chrysopa galapagoensis*, n. sp. (South Seymour Island); *Megalomus darwini*, n. sp. (Indefatigable Island).]

BANNING, G. H., and J. S. BARTII

1933. Hancock expedition of 1933 to the Galapagos Islands. Bulletin of the Zoological Society of San Diego, vol. 10, pp. 1-30. [Popular account of the expedition.]

BARBER, H.G.

1925. Hemiptera-Heteroptera from the Williams Galapagos Expedition. Zoologica, vol. 5, pp. 241-254. [8 new species in 6 families; total of 16 species listed—*Harmostes disjunctus*, n. sp. (Indefatigable Island); *Heraeus pacificus*, n. sp. (James Island); *Creontiades fuscus*, n. sp. (Indefatigable and James islands); *Orthaea insularis*, n. sp. (James, S. Seymour, Albemarle, and Indefatigable islands); *Psallus insularis*, n. sp. (James Island); *Repipta annulipes*, n. sp. (Indefatigable Island); *Corythaica renormata*, n. sp. (Daphne Major Island); *Halobates robustus*, n. sp. (Indefatigable Island).]
1934. The Norwegian Zoological Expedition to the Galapagos Islands 1925, conducted by Alf Wollbeck. XI. Hemiptera-Heteroptera. Nyt Magazin for Naturvidenskaberne, vol. 74, pp. 281-289. [Reprinted as Meddelelser fra det Zoologiske Museum, Oslo, nr. 42, pp. 281-289 (1934).] [40 species recorded including *Aknisus galapagensis*, n. sp., (Chatham Island) (Neididae).]

BARLOW, NORA (editor)

1934. Charles Darwin's Diary of the Voyage of HMS "Beagle." Cambridge University Press, xxx + 442 pp. Map.

1946. Charles Darwin and the Voyage of the Beagle, unpublished letters and notebooks, 279 pp. The Philosophical Library, New York.
- BEEBE, WM.
 1923. Williams Galapagos Expedition. Zoologica, vol. 5, pp. 1-20, 10 figs. 1 map.
 1923. Notes on Galapagos Lepidoptera. Zoologica, vol. 5, pp. 51-59.
 1924. Galapagos, World's End. C. P. Putnam's Sons, New York and London, xxi + 433 pp., illus.
 1925. Logging the Arcturus. Bulletin of the New York Zoological Society, vol. 28, pp. 103-116.
- BEEBE, WM., and RUTH ROSE
 1925. The second half of the Arcturus Adventure. Bulletin of the New York Zoological Society, vol. 28, pp. 119-129, 4 col. plates.
- BEQUAERT, J. C.
 1933. The Templeton Crocker Expedition of the California Academy of Sciences, 1932. No. 11. The Hippoboscidae of the Galápagos Archipelago (Notes on the Hippoboscidae. 8). with an Appendix on the Tabanidae. Proceedings of the California Academy of Sciences, ser. 4, vol. 21, pp. 131-138. [3 genera: *Olfersia*, three species; *Lynchia*, two species; and *Microlynchia*, one species; no new species.]
 1955. The Hippoboscidae or louse-flies (Diptera) of mammals and birds. Part II. Taxonomy, evolution and revision of American genera and species. Entomologica Americana, vol. 35, pp. 233-416, 38 figs. [*Microlynchia galapagoensis*, n. sp., (Indefatigable and Hood islands). (p. 384, figs.)]
- BLAIR, K. G.
 1928. Coleoptera (Heteromera, Terebrilia, Malacodermata and Bruchidae) from the Galápagos Islands, collected on the St. George Expedition, 1924. The Annals and Magazine of Natural History, ser. 10, vol. 1, pp. 671-680.
 1933. Further Coleoptera from the Galápagos Archipelago. The Annals and Magazine of Natural History, ser. 10, vol. 11, pp. 471-487. [New records and/or new species in Carabidae, Hydrophilidae, Histeridae, Coccinellidae, Languridae, Dermestidae, Scarabaeidae, Bostrychidae, Lycidae, Cantharidae, Cleridae, Elateridae, Tenebrionidae, Cistelidae, Oedemeridae, Cerambycidae, Chrysomelidae, Curculionidae, and Scolytidae.]
- BOHEMAN, C. H.
 1858- Coleoptera. Species novas descripsit. in: Kongliga Svenska Fregatten Eugenie
 1859. resa omkring Jordan . . . Zoologi I, Insecta, pp. 1-218, 2 pls. [7 new species from Galápagos: *Feronia insularis*, *Copris lugubris*, *Heterocrepedius puberulus*, *Tessaroma morio*, *Phaleria manicata*, and *Eburia amabilis*.]
- BORGMEIER, T.
 1960. Geflügelte und ungeflügelte Phoridae aus der neotropischen Region, nebst Beschreibung von sieben neuen Gattungen (Diptera, Phorida). Studia Entomologica (new series), vol. 3, pp. 257-374, figs. [*Dohrniphora cornuta* (Bigot) (p. 277).]
- BOWMAN, R. I.
 1961. Morphological Differentiation and Adaptation in the Galápagos Finches. University of California Publications in Zoology, vol. 58, pp. iv + 302, 22 pls., 74 text figs. [Food habits of birds.]
- BRAUER, F., and Y. E. VON BERGENSTAMM
 1892. Die Zweiflügler des Kaiserlichen Museums zu Wien. v. Vorarbeiten zu einer Monographie der *Muscaria schizometopa* (Exclusive Anthomyidae). Pars II.

Denkschriften der Kaiserlichen Akademie der Wissenschaften, vol. 58, pp. 305-446, Wien.

BREUNING, S.

1927. Monographie der Gattung *Calosoma* Web. (Carab.) Koleopterologische Rundschau, vol. 13, pp. 129-232. [*Calosoma galapageum* Hope (pp. 200-201); synonymy, distribution (Galápagos Islands and adjacent coast of South America).]

BRINCK, P.

1951. Anoplura from the Galápagos Islands. Nyt Magazin Naturvidenskaberne, vol. 88, pp. 246. [*Polyplax spinulosa* recorded from *Epimys rattus alexandrinus* on Floreana Island.]

BRUES, C. T.

1919. A new species of the Hymenopterous genus *Scleroderma* from the Galápagos Islands. Proceedings of the California Academy of Sciences, ser. 4, vol. 2, pp. 309-310.
1924. Triungulin larvae from the Williams Galápagos Expedition. Zoologica, vol. 5, pp. 125-136, figs. 28-32. [Larvae of a meloid beetle (presumably *Cissites maculata* (Swederer) from carpenter bee (*Xylocopa*) captured on South Seymour Island.]

BURNS, J. M.

1964. Evolution in skipper butterflies of the genus *Erynnis*. University of California Publications in Entomology, vol. 37, pp. 1-214, 1 pl. [p. 177, corrects Van Duzee's 1933 record of *Thanaos persius* to *Erynnis funeralis* Scudder and Burgess.]

BUTLER, A. G.

1877. Account of the Zoological Collection made during the visit of H.M.S. "Peterel" to the Galapagos Islands. X. Lepidoptera, Orthoptera, Hemiptera. Proceedings of the Zoological Society of London, 1877, pp. 86-91.

CALVERT, P. P.

- 1901- Insecta. Neuroptera. Odonata. Biologia Centrali-Americana, pp. xxx + 17-419.
1908. 9 pls., 1 map. [*Anomalagrion hastatum* (p. 130); *Tramea darwini* (p. 303); *Pantala flavescens* (p. 307); *Pantala hymenea* (p. 309); *Cannacria batesii* (= *Cannacria fumipennis*) (p. 326).]
1947. The Odonate collections of the California Academy of Sciences from Baja California and Tepic, Mexico, of 1889-1894. Proceedings of the California Academy of Sciences, ser. 4, vol. 23, pp. 603-609.
1947. Odonata of Voyages under the auspices of the New York Zoological Society. Entomological News, vol. 58, pp. 227-230. [Records *Pantala flavescens* (Fabricius) (Indefatigable and South Seymour islands); *Tramea cophysa darwini* Kirby (Hood and Albemarle islands).]
1952. New taxonomic entities in Neotropical Aeshnas (Odonata: Aeshnidae). Entomological News, vol. 63, pp. 253-264. [*Neureclipta galapagoensis* (p. 258).]
1956. The Neotropical species of the "subgenus *Aeshna*" sensu Selysii 1883 (Odonata). Memoirs of the American Entomological Society, vol. 15, pp. 1-251, 47 pls., 19 tables, maps I-IV. [*Aeshna* (*Neureclipta*) *galapagoensis*, p. 137, pl. 17.]

CAMPOS, R. FRANCISCO

1932. Estudio sobre una pequeña coleccion de Insectos de Puna Vieja y Archipiélago de Galápagos. Revista del Colegio Nacional Vicente Rocafuerte. Año XIV, Núm. 46-47, pp. 9-14. [Lists 53 species from Puna Vieja and the Galápagos. The following are the Galápagos species: *Sphingonotus fusco-irroratus* Stål (Puna and Chatham islands); *Calosoma howardi* Linell (Chatham Island);

Tropisternus lateralis Fabricius (Chatham Island); *Dermestes carnivorus* Fabricius (Chatham Island); *Pseuderyctes galapagoensis* Linell (Chatham Island); *Stomion galapagoense* Waterhouse (Chatham Island); *Gnathocerus cornutus* Fabricius (Chatham Island); *Acanthoderes galapagoensis* Linell (Chatham Island); *Phlegethontius rustica* var. *galapagensis* Holland (Santa Cruz Island); *Celerio lineata* Fabricius (Chatham Island).]

CANDEZE, E. C. A.

1859. Monographie des Elaterides. 2. Mémoires de la Société Royale des Sciences de Liège, vol. 14, pp. 1-543, pls. 1-7. [*Physorhinus galapagoensis* (p. 394).]

CARRIKER, M. A., JR.

1957. Notes on some of the Vernon L. Kellogg types of Mallophaga. Microentomology, vol. 22, pp. 95-110. [Corrects generic assignments of two Galápagos species.]

CARVALHO, J. C. M.

1957- A Catalogue of the Miridae of the World. Arquivos do Museu Nacional, Rio de Janeiro, Brazil. vol. 44, 158 pp. (part 1); vol. 45, 216 pp. (part 2); vol. 47, 161 pp. (part 3); vol. 48, 384 pp. (part 4); vol. 51, 194 pp. (part 5). [Lists Galápagos species with new generic assignment for *Capsus nigritulus* Walker.]

CARVALHO, J. C. M., and E. WAGNER

1957. A world revision of the genus *Trigontylus* Fieber. Arquivos do Museu Nacional, Brazil, vol. 43, pp. 121-155. [*Miris lineatus* Butler treated on p. 135; recorded from Seymour Island.]

CAUDELL, A. N.

1932. Insects of the order Orthoptera of the Pinchot Expedition of 1929. Proceedings of the United States National Museum, vol. 80, pp. 1-7. [8 species listed from the Galápagos Islands.]

CHAMPION, G. C.

1918. Notes on various South American Coleoptera collected by Charles Darwin during the voyage of the "Beagle," with descriptions of new genera and species. The Entomologist's Monthly Magazine, vol. 54, pp. 43-55.

1924. The insects of the Galapagos Islands. The Entomologist's Monthly Magazine, vol. 60, pp. 259-260. [Review of entomology in Beebe (1924) and the paper by Butler (1877b); generic placements by W. E. China.]

CHEESMAN, L. E.

1929. Hymenoptera collected by the "St. George" Expedition in Central America and the W. Indies. Transactions of the Entomological Society of London, vol. 77, pp. 141-154. [*Xylocopa darwini*: ♂, ♀; (Albemarle, Charles, Indefatigable, and James islands) (pp. 143-144, figs. 2a, b).]

CLARK, B. P.

1926. A revision of the Protoparce of the Galápagos Islands. Proceedings of the New England Zoology Club, vol. 9, pp. 67-71. [Recognizes: *Protoparce calapagensis* Holland; *Protoparce nigrita* Rothschild and Jordan; *Protoparce rustica postscripta* n. subsp. (Charles Island) (p. 70); and *Protoparce leucoptera* Rothschild and Jordan.]

CLARKE, J. F. GATES

1928. Catalogue of the Type specimens of Microlepidoptera in the British Museum (Natural History) described by Edward Meyrick. London, British Museum, vol. III, 600 pp. [*Plateprota colobota*, p. 179. *Crocidosema plebeiana*, p. 319.]

CLAY, THERESA

1958. Revisions of Mallophaga genera. *Degeeriella* from the Falconiformes. Bulletin of the British Museum (Natural History), vol. 7, no. 4, pp. 123-207, 9 pls. [Synonymy of *Degeeriella regalis*, p. 186.]

COCKERELL, T. D. A.

1926. Descriptions and records of bees.—CXI. The Annals and Magazine of Natural History, ser. 9, vol. 17, pp. 657–665. [*Xylocopa darwini*, n. sp., ♀, (Chatham Island) (pp. 659–660).]
1935. The Templeton Crocker Expedition of the California Academy of Sciences, 1932. no. 28. The carpenter bees of the Galápagos Islands. Proceedings of the California Academy of Sciences, ser. 4, vol. 21, pp. 379–382. [Discussion of *Xylocopa darwini*; history, variation.]

COLLENETTE, C. L.

1925. Sea-Girt Jungles. The experiences of a naturalist with the "St. George" Expedition. London. Hutchinson & Co., pp. xiv + 275, map, plates.

CONDÉ, B.

1960. Présence des Diptères Campodécidés sur les Iles Galapagos. Bulletin du Museum d'Histoire Naturelle, Paris, ser. 2, vol. 32, pp. 172–176, 1 fig. [*Lepidocampa juradoi seclusa*, n. subsp. (p. 172), (Santa Cruz Island).]

COQUILLET, D. W.

1901. Papers from the Hopkins Stanford Galapagos Expedition, 1898–1899. II. Entomological results (2): Diptera. Proceedings of the Washington Academy of Science, vol. 3, pp. 371–379. [Records of 35 species; *Ceratopogon galapagensis*, n. sp. (p. 372), (Albemarle Island); *Parcuxesta* (n. gen.) *latifasciata*, n. sp. (p. 376), (Tower Island); *Pareuxesta obscura*, n. sp. (p. 377), (Albemarle Island); *Pareuxesta hyalinata*, n. sp. (p. 377), (Albemarle Island); *Ephydra gilvipes*, n. sp. (p. 377), (Albemarle Island); *Canace snodgrassii*, n. sp. (p. 378), (Albemarle and Narborough islands); *Rhinoessa costalis*, n. sp. (p. 378), (Albemarle Island); *Pseudolfersia diomedae*, n. sp. (p. 379), (Albemarle Island).]

CURIO, E.

1964. Über das Nüchtern von *Nocticanace galapagensis* Curran (Diptera, Canaceidae). Zeitschrift für Tierpsychologie. Band 21, Heft 7, pp. 794–797.

CURRAN, C. H.

1932. [The Norwegian Zoological Expedition to the Galápagos Islands 1925, conducted by Alf Wollebaek. IV.] Diptera (excl. of Tipulidae and Culicidae). Nyt Magazin Naturvidenskaberne, vol. 71, pp. 347–366, 1 fig. [Reprinted as Meddelelser fra det Zoologiske Museum, Oslo, nr. 30, pp. 347–366, 1 fig. (1932).] [Summary list of previously known species with many new records; keys to: species of *Villa* (p. 350), genera of Dolichopodidae (p. 352), species of *Hippelates* (p. 356); descriptions of 7 new species.]
1933. The Templeton Crocker Expedition of the California Academy of Sciences, 1932. no. 12. Diptera. Proceedings of the California Academy of Sciences, ser. 4, vol. 21, pp. 147–172, 4 figs. [Many records and the following new species: *Pipunculus galapagensis* (Albemarle, Gardner, Charles, and James islands); *Mesogramma crockeri* (Charles, Chatham, Albemarle, and Indefatigable islands); *Euxesta galapagensis* (Hood Island); *Paroxyyna crockeri* (Albemarle, Charles, James, S. Seymour, Jervis, Duncan, and Indefatigable islands); *Sphaerocera galapagensis* (Chatham Island); *Procanace galapagensis* (Albemarle Island); *Scatella galapagensis* (Chatham Island); *Xenocoenosia devia* (Chatham and James islands); *Vividinsula deceptor* (N. Seymour, Albemarle, Hood, and Charles islands); *Sarcophaga isla* (Gardner and Hood islands); *Sarcophaga williamsi* (Charles Island); *Galapagosia minuta* (Indefatigable Island).]

CURRIE, R. P.

1901. Papers from the Hopkins Stanford Galapagos Expedition, 1898-1899. Entomological Results (3): Odonata. Proceedings of the Washington Academy of Science, vol. 3, pp. 381-389. [7 species recorded: *Aeschna galapagoensis*, n. sp. (p. 382, fig. 29, 30), (Chatham Island); *Cannacria fumipennis* (p. 387, figs. 31-34), (Albemarle Island).]

DALLAS, W. S.

- 1851- List of the Specimens of Hemipterous Insects in the collection of the British Museum, London, Part I, pp. 1-368, 11 pls.; Part II, pp. 369-592, 4 pls.
1852. *Anasa obscura*, *Stenocephalus insularis*, *Nysius* ? *marginalis*, new species, all collected by C. Darwin.]

DARWIN, C.

1839. Journal and remarks. In: Fitzroy, Narrative of the surveying voyages of His Majesty's Ships *Adventure* and *Beagle*, between the years 1826 and 1836, describing their examination of the southern shores of South America and the *Beagle's* circumnavigation of the globe. vol. 3, pp. xiv + 615. H. Colburn, London.

DISTANT, W. L.

1900. Undescribed genera and species belonging to the Rhynchotal family Pentatomidae. Transactions of the Entomological Society of London, 1900, pp. 163-174.
1904. Rhynchotal Notes—XXI. The Annals and Magazine of Natural History, ser. 7, vol. 13, pp. 194-206. [Revision of Walker types and description of new genus *Dagbertus*, pp. 203-204.]
1909. VIII—Rhynchotal Notes—XLVIII. The Annals and Magazine of Natural History, ser. 8, vol. 4, pp. 73-87. [*Galapagosana*, n. gen., p. 73, for *Issus rostrifer* Butler.]

D'ORCHY MONT, A.

1937. Sphaeridiini broméliadicoles nouveaux (Coleoptera: Hydrophilidae, Sphaeridiinae). The Annals and Magazine of Natural History, ser. 10, vol. 20, pp. 127-140, 2 figs. [*Galapagodacnum*, n. gen., for *Coelostoma darwini* Blair (p. 134).]

DOS PASSOS, C. F.

1964. A synonymic list of the Nearctic Rhopalocera. Lepidopterists' Society, Memoirs, vol. 1, pp. 1-145.

DRAKE, C. J.

1954. Synonymic data and description of a new saldid (Hemiptera). Occasional Papers, Museum of Zoology, University of Michigan, no. 553, 5 pp. [*Salda rubromaculata* Heidemann, a synonym of *Salda sphaecelata* Uhler.]

EDWARDS, R. L.

1961. Studies of the Philopteridae (Mallophaga) from birds of the order Procellariiformes. 1. The genus *Halipeurus* Thompson. Journal of Parasitology, vol. 47, pp. 125-157. [*Lipeurus limitatus* treated as synonym of *Halipeurus diversus* (Kellogg); *Halipeurus pelagicus* recorded from Galapagos, with synonymy.]

EMERY, C.

1891. Voyage de M. Ch. Allnaud dans le territoire d'Assinie. Formicides. Annales de la Société Entomologique de France, 1891, pp. 553-574. [*Champsomyrmex bauri*, n. sp. (p. 561), Galápagos Islands.]
1893. Notice sur quelques Fourmis des îles Galápagos. Annales de la Société Entomologique de France, vol. 62, pp. 89-92. [5 species recorded, two described as new.]

ESBEN-PETERSEN, P.

1920. Revision of some of the type specimens of Myrmeleonidae, described by Navas

- and placed in the Vienna Museum. *Annales de la Société Entomologique de Belgique*, vol. 60, pp. 190–196. [*Dimares formosa* Banks (= *Dimares nummatus* Navas) (p. 191).]
1934. The Norwegian Zoological Expedition to the Galápagos Islands 1925, conducted by Alf Wollebaek. XII. Neuropterous insects from Galápagos Islands. *Nyt Magazin Naturvidenskaberne*, vol. 74, pp. 291–294. [Reprinted as *Meddelelser fra det Zoologiske Museum, Oslo*, nr. 43, pp. 291–294 (1934).] [*Chrysopa wollebaeki*, n. sp. (p. 291, figs. 1, 2, (Floreana Island); myrmelionid larva (p. 293, fig. 3), (Floreana Island).]
- EVANS, W. H.
1952. A catalogue of the American Hesperidae indicating the classification and nomenclature adopted in the British Museum (Natural History). Part II (groups B, C, D). Pyrginae. Section 1. British Museum, London. v + 178 pp., 16 pls. [*Urbanus dorantes galapagensis* (Williams), new combination (p. 93).]
- EWING, H. E.
1924. Bird-infesting Mallophaga collected by the Williams Galapagos Expedition. *Zoologica*, vol. 5, pp. 81–84, fig. 12. [Records for 8 species, including *Esthiop-terium nanuopteri*, n. sp. (p. 82, fig. 12), from *Nannoptera harrisi*, and *Esthiop-terium potens* var. *minor*, new (p. 84), from *Sula neboxii*.]
- FENNAH, R. G.
1954. The higher classification of the family Issidae (Homoptera: Fulgoroidea) with descriptions of new species. *Transactions of the Royal Entomological Society of London*, vol. 105, pp. 455–474. [Key to genera of Acanoloniinae including *Galapagosana* Distant and *Euthiscia* Van Duzee, p. 472.]
- FERRIS, G. F.
1916. Notes on Anoplura and Mallophaga, from mammals, with descriptions of four new species and a new variety of Anoplura. *Psyche*, vol. 23, pp. 97–120. [*Hoplopleura quadridentata* Ferris, not Neumann, from the Galápagos Islands.]
1921. Contributions toward a monograph of the sucking lice. Part II. Stanford University Publication, University series, Biological Sciences, ser. 2, vol. 2, pp. 59–133, figs. 33–89. [*Hoplopleura nesoryzomydis*, n. sp., (Galápagos Islands) (p. 90), based upon specimens previously reported as *Hoplopleura quadridentata* by Ferris (1916).]
1923. Contributions toward a monograph of the sucking lice. Part IV. Stanford University Publication, University series, Biological Sciences, ser. 2, vol. 4, pp. 183–270, figs. 119–172. [*Polyplax spinulosa* recorded from the Galapagos Islands (p. 188).]
1941. Atlas of Scale Insects of North America—S III-362. [*Aspidiotus smilacis* Kuzwana, not Comstock, a misidentification for *Melanaspis obtusa* Ferris, n. sp.]
1951. The Sucking Lice. *Memoirs of the Pacific Coast Entomological Society*, vol. 1, pp. ix + 320. [Galápagos species *Hoplopleura nesoryzomydis*, p. 138; *Hoplopleura quadridentata* (Neumann) a valid species, p. 142; *Polyplax spinulosa* (Burmeister), p. 211.]
- FLUKE, C. L.
1942. Revision of the Neotropical Syrphini related to *Syrphus* (Diptera, Syrphidae). *American Museum Novitates*, no. 1201, pp. 1–24, figs. [*Allograpta splendens* (Thomson) (p. 17, fig. 40).]
1956. Catalogue of the family Syrphidae in the Neotropical Region (Diptera). *Revista Brasileira de Entomologia*, vol. 6, pp. 193–268. [*Allograpta splendens* (Thomson) (p. 210); *Baccha clavata* (Fabricius) (p. 240).]

FOLSOM, J. W.

1924. Apterygota of the Williams Galápagos Expedition. *Zoologica*, vol. 5, pp. 67-76, pls. 3-5. [Three species recorded: *Heterolepisma intermedia*, n. sp. (pp. 67-70, figs. 1-12) (Indefatigable and South Seymour islands); *Acrotelsa galapagoensis* (Banks), (pp. 71-73, figs. 13-20) (Indefatigable, South Seymour, Daphne Major, and James islands); *Lepidocyrtus intermixus*, n. sp., (pp. 75-76, figs. 27-29) South Seymour Island.]

FROESCHNER, R. C.

1960. Cydnidae of the Western Hemisphere. *Proceedings of the United States National Museum*, vol. 111, pp. 337-680. [Redescription and generic placement of *Geotomus murinus* Van Duzee in *Dallasellus*, p. 616.]

GARTH, J. S.

1933. IV. Insects. In: Banning, G. H., Hancock Expedition of 1933 to the Galapagos Islands. *Bulletin of the Zoological Society of San Diego*, no. 10, May 1933, pp. 18-20. [Charles Island butterflies—*Leptotes marina*, *Catopsilis eubule*, *Dion vanillae*, *Danaus menippe* (Monarch), and *Eudamus galapagensis*; *Xylocopa* (Charles Island) (nesting in "the agava"), *Amantis* (Barrington Island), *Halobates* (north of Albemarle Island), flat flies on birds.]

GIFFORD, E. W.

1919. Expedition of the California Academy of Sciences to the Galápagos Islands, 1905-1906. XIII. Field notes on the Land Birds of the Galápagos Islands and of Cocos Island, Costa Rica. *Proceedings of the California Academy of Sciences*, ser. 4, vol. 2, pt. II, no. 13, pp. 189-258. [Insects as food of the birds.]

HEBARD, M.

1920. Expedition of the California Academy of Sciences to the Galápagos Islands, 1905-1906. XVII. Dermaptera and Orthoptera. *Proceedings of the California Academy of Sciences*, ser. 4, vol. 2, pp. 311-346, pl. 18, t. figs. 1-11. [Reports 1 species of Dermaptera (adventive); 9 species of blattids, all but one, *Anisopygia snodgrassii* (McNeill), adventive; 1 endemic mantid, *Galapagia solitaria* Scudder; 8 species of acridids, 3 dividing into geographic races, 1 also recorded from Puna Island, Ecuador; 4 species of tettigoniids, 3 endemic; 4 species of gryllids, 3 endemic.] [*Halmenus eschatus*, n. sp. (Wenman Island).]

1934. The Norwegian Zoological Expedition to the Galápagos Islands 1925, conducted by Alf Wollebaek. X. Orthoptera of the Galápagos Islands. *Nyt Magazin Naturvidenskaberne*, vol. 74, pp. 279-280. [Reprinted as *Meddelelser fra det Zoologiske Museum, Oslo*, nr. 41, pp. 279-280 (1934).] [Records of 11 species from Floreana and/or Chatham Island; 17 species and 4 races regarded as native; of cockroaches, 8 are adventive, one native.]

HEIDEMANN, O.

1901. Papers from the Hopkins Stanford Galápagos Expedition, 1898-1899. I. Entomological Results (1): Hemiptera. *Proceedings of the Washington Academy of Science*, vol. 3, pp. 364-370. [Records for 21 species of Heteroptera and Homoptera; *Ghilianella galapagensis*, n. sp. (p. 367), (Hood and Albemarle islands); *Salda rubromaculata*, n. sp. (p. 368) (Albemarle Island).]

HERRING, J. L.

1961. The genus *Halobates* (Hemiptera: Gerridae). *Pacific Insects*, vol. 3, no. 2, pp. 223-305. [*Halobates micans*, Galápagos, p. 227; *Halobates sobrinus*, Galápagos, p. 229; *Halobates robustus* (Santa Cruz and Isabela islands), p. 229 and 282-283.]

HINTON, H. E.

1936. New species of *Ataenius* allied to *Ataenius cribrithorax* Bates (Coleoptera, Scarab-

- baecidae). The Annals and Magazine of Natural History, ser. 10, vol. 17, pp. 413-428. [*Ataenius arrowi*, n. sp. (p. 414), Galápagos Islands.]
- HOLLAND, W. J.
1889. Lepidoptera. In: Howard, L. O., Scientific results of explorations by the U. S. Fish Commission Steamer Albatross. no. V—Annotated catalogue of the insects collected in 1887-'88. Proceedings of the United States National Museum, vol. 12, pp. 194-196.
- HOPE, F. W.
1838. Descriptions of some species of Carabidae, collected by Charles Darwin, Esq., in his late voyage. Transactions of the Entomological Society of London, vol. 2, pp. 128-131. [*Calosoma galapageium*, n. sp., Galápagos Islands.]
- HOPKINS, G. H. E.
1951. xxxvi.—Stray notes on Mallophaga.—xi. The Annals and Magazine of Natural History, ser. 12, vol. 4, pp. 375-377. [Lectotypes designated for *Brülia* species of Kellogg and Kuwana.]
- HOPKINS, G. H. E., and T. CLAY
1952. A check list of the genera and species of Mallophaga. British Museum (Natural History), London, 362 pp.
- HORN, W.
1915. Coleoptera, Adepaga, Fam. Carabidae, Subfam. Cicindelinae. Genera Insectorum, fasc. 82c, pp. 209-486, pls. 16-23. [*Cicindela galapagoensis*, n. sp. (p. 52, et seq.).]
1920. Cicindelinen-Studien aus dem schwedischen Reichsmuseum nebst einigen Bemerkungen neuer Arten, etc. Archives für Zoologi, vol. 13, no. 11, pp. 1-21. [*Cicindela galapagoensis* Horn (p. 17).]
- HOWARD, L. O.
1890. Scientific results of explorations by Steamer Albatross, No. 5. Annotated catalogue of the insects collected in 1887-'88. Proceedings of the United States National Museum, vol. 12, pp. 185-216 (1889).
- HURD, P. D., JR.
1955. Observations on the nesting habits of some New World carpenter bees with remarks on their importance in the problem of species formation. Annals of the Entomological Society of America, vol. 51, pp. 365-375, 5 figs. [Reference to the Galápagos carpenter bee, *Xylocopa darwini* Cockerell, as host of parasitic beetle *Cissites maculata* (Swederus) (p. 372).]
1958. The carpenter bees of the eastern Pacific oceanic islands. Journal of the Kansas Entomological Society, vol. 31, pp. 249-255. [*Xylocopa darwini*, summary of literature.]
- HUTCHINSON, G. E.
1931. On the occurrence of *Trichocorixa* Kirkaldy (Corixidae, Hemiptera-Heteroptera) in salt water and its zoogeographic significance. The American Naturalist, vol. 65, pp. 573-574. [Cites a personal note from Dr. H. B. Hungerford that *Trichocorixa* had been received from the Galápagos Islands.]
- JOHN, H.
1959. Neue Spezies der Gattungen *Notiophygus* Gory und *Fallia* Sharp (Ins., Col., Discolomidae = Notiophygidae). Senckenbergiana Biologie, vol. 40, pp. 289-296, 2 pls., 2 figs. [*Fallia galapagana*, n. sp. (p. 295, fig. 2) (Santa Cruz Island); *Fallia colorata*, n. sp. (p. 295, pl. 35, figs. 2a-2e), (Galápagos Islands).]
- JOHNSON, C. W.
1924. Diptera of the Williams Galápagos Expedition. Zoologica, vol. 5, pp. 85-92, figs. 13-14. [28 species recorded, 13 for first time; new species: *Galapagomya*

longipes (Indefatigable Island); *Asyndetus versicolor* (S. Seymour Island); *Odiua williamsi* (S. Seymour Island).]

KÉLER, S. VON

1957. Die Mallophaga von Sturmvögeln und Ruderfüßern. I. *Harrisoniella* Bedford und *Perineus* Thompson (Mallophaga) (2. Fortsetzung). Beiträge zur Entomologie, vol. 7, pp. 493-527, 30 figs. [*Perineus oblongus*, n. sp. (p. 523, figs. 27-28) (on *Diomedea irrorata*) (Galápagos Islands).]

KELLOGG, V. L.

1901. Insects and spiders of the Galápagos Islands. Psyche, vol. 9, pp. 173-175.
 1903. Two new genera of Mallophaga. Biological Bulletin, vol. 5, pp. 85-91.
 1906. A second collection of Mallophaga from birds of the Galápagos and Revillagigedo islands and neighboring waters. Transactions of the American Entomological Society, vol. 32, pp. 315-324. [Records of 41 spp. from Galápagos Islands, including *Nirmus ridgewayi*, n. sp. (p. 317) (Indefatigable Island), and *Meno-pon beckii*, n. sp. (p. 322) (Daphne Island).]

KELLOGG, V. L., and S. I. KUWANA

1902. Papers from the Hopkins Stanford Galápagos Expedition, 1898-1899. Entomological Results (8): Mallophaga from birds. Proceedings of the Washington Academy of Science, vol. 4, pp. 457-499, pls. 28-31. [43 species reported, many described as new.]

KERNBACH, K.

1962. Die Schwärmer einiger Galapagos-Inseln (Lep. Sphingidae). Opuscula Zoologica, vol. 63, pp. 1-19, abb. 1-12. [12 species recorded, 1 described as new; 6 named as new subspecies of mainland forms.]

KIRBY, HAROLD, JR.

1939. The Templeton Crocker Expedition of the California Academy of Sciences, 1932. no. 39. Two new flagellates from termites in the genera *Coronympha* Kirby, and *Metacaronympha* Kirby, new genus. Proceedings of the California Academy of Sciences, ser. 4, vol. 22, pp. 207-220, 4 pls.

KIRBY, W. F.

1889. A revision of the subfamily Libellulinae, with descriptions of new genera and species. Transactions of the Zoological Society of London, vol. 12, pp. 249-348, pls. 51-57. [*Tramea darwini*, n. sp. (p. 315, pl. 51, fig. 1).]
 1890. A synonymic catalogue of Neuroptera Odonata or dragonflies with an appendix of fossil species. London. pp. 1-202.

KÖHLER, P.

1961. Noctuidarum miscellanea III. Anales de la Sociedad Científica Argentina, Buenos Aires, vol. 172, pp. 69-94, 25 figs. [*Agrotis (Scotia) galapagosensis*, n. sp.]

KUSCHEL, G.

1963. Composition and relationship of the terrestrial faunas of Easter, Juan Fernandez, Desventuradas, and Galapagos islands. Occasional Papers of the California Academy of Sciences, no. 44, pp. 79-95, 1 fig., 11 tab. [Includes climatological data for San Cristóbal and Seymour islands and comparison of Coleoptera of Galápagos and Juan Fernandez by families.]

KUWANA, S. J.

1902. Coccidae from the Galapagos Islands. Journal of the New York Entomological Society, vol. 10, pp. 28-33, 2 pls. [Removed from herbarium specimens collected by the Snodgrass-Heller Expedition; includes: *Orthezia galapagoensis*, n. sp. (p. 28); *Lecanium hesperidum* var. *pacificum*, n. var. (p. 30).]

LACK, DAVID

1945. The Galápagos Finches (Geospizinae), a study in variation. Occasional Papers

- of the California Academy of Sciences, no. 21, 152 pp., 4 pls. [Insects as food.]
- LESNE, P.
1910. Notes sur les Coléoptères Térédiles. 4. Les Bostrychides des Îles Galápagos. Bulletin du Muséum National d'Histoire Naturelle, vol. 16, pp. 183-186. [*Schistoceros cornutus galapaganus*, n. subsp. (p. 184).]
- LIGHT, S. F.
1935. The Templeton Crocker Expedition of the California Academy of Sciences, 1932. no. 20. The termites. Proceedings of the California Academy of Sciences, ser. 4, vol. 21, pp. 233-258, pls. 9-10, 10 t. figs. [5 species recorded: *Kaloterme immigrans* Snyder (Chatham, Indefatigable, James, Albemarle, Jarvis, Narborough, South Seymour, and Tower islands); *Kaloterme pacificus* Banks (Albemarle and James islands); *Kaloterme darwini*, n. sp. (Albemarle, Charles, and James islands); *Kaloterme fatulus*, new name (Albemarle and James islands); *Heteroterme orthognathus* Light (Indefatigable Island).]
- LINELL, M. L.
1898. On the coleopterous insects of the Galápagos Islands. Proceedings of the United States National Museum, vol. 21, no. 1143, pp. 249-268.
- LINNAVUORI, R.
1959. Revision of the Neotropical Deltocephalinae and some related subfamilies (Homoptera). Annales Zoologici Societatis Zoologicae Botanicae Fennicae "Vanamo," vol. 20, 370 pp., 144 figs. Finland. [Generic placement of *Deltocephalus*, *Scaphytopius*, *Amplicephalus*, *Exetranus*, and synonymy under *Balclutha* (= *Eugnathodus*).]
- LINSLEY, E. G.
1965. Pollinating insects of the Galápagos Islands. In: Bowman, R. I. (Ed.), Proceedings of the symposia of the Galápagos International Scientific Project. University of California Press, Berkeley-Los Angeles (in press).
- LINSLEY, E. G., C. M. RICK, AND S. G. STEPHENS
1965. Observations on the floral relationships of the Galápagos carpenter bee. Pan-Pacific Entomologist (in press).
- MACSWAIN, J. W.
1961. Primary larvae of *Cissites* associated with New World carpenter bees. The Pan-Pacific Entomologist, vol. 37, pp. 191-194.
- MAA, T. C.
1963. Genera and species of Hippoboscidae (Diptera): types, synonymy, habitats and natural groupings. Pacific Insects Monograph 6, pp. 1-186. [*Olfersia diomedea* (p. 29).]
- MAIDL, F.
1912. Die Xylocopen (Holzbienen) des Wiener Hofmuseums. Ein Beitrag zu einer Monographie dieser Gattung. Annalen des Kaiserlichen-Königlichen Naturhistorischen Hofmuseums, vol. 26, pp. 249-330, tag. 3-4. [*Xylocopa* recorded from the Galápagos Islands (p. 312) (as *Xylocopa brasilianorum*).]
- MARTIN, R.
1908. Collections zoologiques Edm. de Selys Longchamps. Fasc. 18, Aeschnines. [*Aeschna galapagoensis* (p. 50, fig. 47).]
- MARX, F.
1890. ?Arachnida. In: Howard, Scientific results of explorations by Steamer Albatross, no. 5. Annotated catalogue of the insects collected in 1887-88. Proceedings of the United States National Museum, vol. 12, pp. 207-211.
- McLACHLAN, R.
1877. Account of the zoological collection made during the visit of H.M.S. *Peterel* to

the Galapagos Islands. Neuroptera. Proceedings of the Zoological Society of London, 1877, pp. 84-86. [*Pantala hymenaea* (Say) and *Tramea* sp. from Galápagos expedition of H.M.S. *Peterel*.]

MCNEILL, J.

1901. Papers from the Hopkins Stanford Galápagos Expedition, 1898-1899. Entomological Results (4): Orthoptera. Proceedings of the Washington Academy of Science, vol. 3, pp. 487-506. [Distribution of 26 known species summarized and occurrence by islands analyzed: *Temnopteryx snodgrassii*, n. sp. (p. 493) (Albemarle Island); *Liparoscelis cooksoni* Butler (p. 497, fig. 38); *Liparoscelis cooksoni ensifera*, n. subsp. (p. 498, fig. 39) (Hood Island); *Liparoscelis paludicola*, n. sp. (p. 499, fig. 40) (Albemarle Island); *Liparoscelis pallidus*, n. sp. (p. 500, fig. 41) (Barrington Island); *Xiphidium exitiosum*, n. sp. (p. 501, fig. 42); *Nemobius speculi*, n. sp. (p. 503, figs. 43-44) (Albemarle Island); *Cycloptilum lepismoide*, n. sp. (p. 505) (Albemarle, Narborough, and Abington islands).]

MEISE, W.

1933. The Norwegian Zoological Expedition to the Galápagos Islands 1925, conducted by Alf Wolleback. VIII. Scorpiones. Nyt Magazin Naturvidenskaberne, vol. 74, pp. 25-43, figs. [Reprinted as Meddelelser fra det Zoologiske Museum, Oslo, nr. 39, pp. 25-43, figs. (1933).] [*Rhopalurus testaceus exsul*, n. subsp. (p. 26), Floreana Island.]

MELICHAR, L.

1906. Monographie der Issiden (Homoptera). Abendlungen der Kaiserlichen-Königlichen Zoologisch-Botanische Gesellschaft Wien, vol. 3, no. 4, pp. 1-327, 75 figs. [*Issus varius* Walker transferred to *Thionia*.]

METCALF, Z. P.

1943. General Catalogue of the Hemiptera. Fasc. IV, part 3, pp. 552. [Catalogues *Ilburnia simulans* (Walker) p. 317; *Delphacodes substitua* (Walker), p. 518, and *Delphacodes vicaria* (Walker), p. 522.]
1954. General Catalogue of the Homoptera. Fasc. IV, pt. 14, pp. vii + 54. [Genus *Philatis* catalogued, pp. 43-45.]
1958. General Catalogue of Homoptera. Fasc. IV, part 15, pp. vii + 561. [*Galapagosana* catalogued on pp. 289-290.]

MEYRICK, E.

1926. On Microlepidoptera from the Galápagos Islands and Rapa. Transactions of the Entomological Society of London, vol. 74, pp. 269-278. [11 species listed; one probably introduced, 10 represent endemic species in American genera.]

MORRISON, H.

1924. The Coccidae of the Williams Galapagos Expedition. Zoologica, vol. 5, pp. 143-152, figs. 33-37. [6 identified species recorded, all endemic; new species: *Margarodes similis* (South Seymour and Indefatigable islands); *Eriococcus papillosus* (Indefatigable Island); *Phenacoccus parvus* (Tower Island); *Pseudococcus galapagoensis* (Eden and Indefatigable islands); *Pseudococcus insularis* (South Seymour Island).]

MUIR, F.

1919. Notes on the Delphacidae in the British Museum Collection. The Canadian Entomologist, vol. 51, pp. 6-8. [Places Walker's *Delphax simulans* in *Ilburnia*.]
1919. On the Genus *Ilburnia* White (Homoptera, Delphacidae). Proceedings of the Hawaiian Entomological Society, vol. 4, pp. 48-50. [Notes on *Ilburnia simulans* (Walker).]

MUTCHLER, A. J.

1925. Coleoptera of the Williams Galápagos Expedition, *Zoologica*, vol. 5, pp. 219-240.
1938. Coleoptera of the Galápagos Islands. *American Museum Novitates*, no. 981, pp. 1-19.

NAVAS, R. P. LONGIN

1912. Myrméléonides (Ins. Néur.) nouveaux ou peu connus. *Annales de la Société Scientifique de Bruxelles*, vol. 36, pp. 203-248. [*Dimares nummatus*, n. sp. (p. 229, fig. 16). (S. Elena Island, Galápagos).]

NEEDHAM, J. G.

1902. New dragon-fly nymphs in the United States National Museum. *Proceedings of the United States National Museum*, vol. 27, pp. 685-720, 7 pls. [*Aeschna galapagoensis* Currie (nymph) (p. 695, pl. 40, fig. 3).]

OSBORN, H.

1889. Mallophaga. In: Howard, L. O., Scientific results of explorations by the U. S. Fish Commission Steamer Albatross. No. V—Annotated catalogue of the insects collected in 1887-'88. *Proceedings of the United States National Museum*, vol. 12, pp. 188-189.
1924. Homoptera of the Williams Galapagos Expedition. *Zoologica*, vol. 5, pp. 77-79. [Four species recorded: *Jassus galapagoensis*, n. sp. (pp. 77-78) (Indefatigable and James islands); *Philatis productus* Stål (p. 78) (Tower Island); *Philatis cinerea*, n. sp. (pp. 78-79) (Tower Island); and *Philatis major*, n. sp. (Indefatigable Island).]

PALCT, J.

1956. Biologie der primär flügellosen Insekten. Jena. [*Stylifer galapagoensis* (Banks), n. comb. (p. 27).]
1959. Über die Lepismatidae (Ins. Thysanura) von den Galapagos-Inseln. *Senckenbergiana Biologie*, vol. 40, pp. 171-172. [*Heterolepisma insulare* (Banks), *Stylifera galapagoensis* (Banks), synonymy, distribution.]

PAPP, C. S.

1954. New record for *Calosoma galapageium* Hope (Coleoptera: Carabidae). *Bulletin of the Southern California Academy of Sciences*, vol. 53, pp. 169-174, pls. 45-46. [Original descriptions of the 4 nominal Galápagos species of *Calosoma* reproduced; *Calosoma galapageium* recorded from Chatham Island.]

PARENT, O.

1934. Diptères Dolichopodides exotiques. *Mémoires de la Société Nationale des Sciences Naturelles et Mathématiques de Cherbourg*, vol. 41, pp. 257-312, 13 pls. [*Vanduzeeia cheesmani*, n. sp. (p. 258) (Galápagos Islands).]

PETROVITZ, R.

1961. Neue und verkannte Aphodiinae aus allen Erdteilen (Col. Scarab.) II. *Entomologische Arbeiten*, vol. 12, pp. 344-356, 5 figs. [*Ataenius acquotatorialis*, n. sp. (p. 355) (Santa Cruz Island); *Ataenius dampieri*, n. sp. (p. 356) (Floreana Island).]

RICHARDS, A. G., JR.

1941. The noctuid moths of the Galapagos from the collections of the Allan Hancock Foundation. *Report of the Allan Hancock Pacific Expedition*, vol. 5, pp. 233-251, 4 pls.

RICHARDSON, H.

1901. Papers from the Hopkins Stanford Galapagos Expedition, 1898-1899. VI. The Isopods. *Proceedings of the Washington Academy of Science*, vol. 3, pp. 365-368.

RICK, C. M.

1963. Biosystematic studies on Galápagos tomatoes. Occasional Papers of the California Academy of Sciences, no. 44, pp. 59-77. [Includes records of flower visits of *Xylocopa darwini* Cockerell (p. 63).]

1965. Some plant-animal relationships on the Galápagos Islands.

RIS, F.

1913. Libelulinen. Collections zoologiques du Baron Edm. de Selys Longchamps, Fasc. 15, pp. 837-964, pl. 7; 16, pp. 965-1042, pl. 8.

ROESCHKE, H.

1900. Carabologische Notizen V. Entomologische Nachrichten, vol. 26, pp. 57-63. [*Calosoma galapageium* Hope: notes on the type (♂) in the British Museum.]

ROHWER, S. A.

1924. Hymenoptera collected by the Williams Galápagos Expedition. Zoologica, vol. 5, pp. 173-175. [Four species recorded, including *Tachysphex galapagensis*, n. sp. (Albemarle Island), and *Aporinellus galapagensis*, n. sp. (South Seymour Island).]

ROTHSCHILD, W., and K. JORDAN

1903. A revision of the lepidopterous family Sphingidae. Novitates Zoologicae, ix supplement, pp. cxxxv + 972, 67 pls.

RUCKES, H.

1957. Three new species of *Thyanta* Stål (Heteroptera: Pentatomidae). The Pan-Pacific Entomologist, vol. 33, pp. 175-180, 8 figs. [*Thyanta setigera*, n. sp.]

SCHAUS, W.

1923. Galapagos Heterocera, with descriptions of new species. Zoologica, vol. 5, pp. 23-48.

SCUDDER, G. G. E.

1957. The systematic position of *Dicranocephalus* Hahn, 1826, and its allies. Proceedings of the Royal Entomological Society of London, ser. A, vol. 32, pp. 147-158. [Discusses anomalous distribution in Galápagos—the only locality in the Western Hemisphere.]

SCUDDER, S. H.

1893. Reports on the dredging operations off the west coast of Central America to the Galápagos, to the west coast of Mexico, and in the Gulf of California, in charge of Alexander Agassiz, carried on by the U. S. Fish Commission Steamer "Albatross" during 1891, Lieut. Commander Z. L. Tanner, U.S.N., Commanding. VII. The Orthoptera of the Galapagos Islands. Bulletin of the Museum of Comparative Zoology, vol. 25, pp. 1-25, pls. I-III.

SIGNORET, V.

1859. Monographie du genre *Corizus*. Annales de la Société Entomologique de France, ser. 3, vol. 28, pp. 75-105. [*Corizus lugens*, p. 92, n. sp. also described in Stål 1859, Kongliga Svenska Fregatten Eugénies Resa Omkring Jorden, . . . Zoologi 1, Insecta, p. 240.]

SLEVIN, J. R.

1931. Log of the Schooner "Academy," on a voyage of scientific research to the Galapagos Islands, 1905-1906. Occasional Papers of the California Academy of Sciences, no. 17, 162 pp., 16 pls., 1 map.

SMITH, F.

1877. Hymenoptera and Diptera. In: Gunther. Account of the zoological collection made during the visit of H.M.S. "Peterel" to the Galápagos Islands, VIII. Proceedings of the Zoological Society of London, 1877, pp. 82-84.

SNODGRASS, R. E.

1902. Papers from the Hopkins Stanford Galapagos Expedition, 1898-1899. VIII. Entomological Results (7): *Schistocerca*, *Sphingonotus*, and *Halmenus*. Proceedings of the Washington Academy of Science, vol. 4, pp. 411-454, pls. XXVI-XXVII.

STACH, J.

1932. The Norwegian Zoological Expedition to the Galápagos Islands 1925, conducted by Alf Wollbeack. III. Die Apterygoten aus den Galápagos-Inseln. Nyt Magazin Naturvidenskaberne, vol. 71, pp. 331-346, pls. 1-4. [Reprinted as Meddelelser fra det Zoologiske Museum, Oslo, nr. 29, pp. 331-346, pls. 1-4 (1932).] [Records of 3 species of Thysanura: *Lepisma insularis* (Fernandina and Isabela islands), *Heterolepisma intermedia* (Santa Cruz, South Seymour, and Floreana islands), *Acrotelsa galapagoensis* (Española, Santa Cruz, Daphne Major, South Seymour, San Salvador, and Floreana islands); 2 species of Collembola: *Anurida maritima* (Floreana Island), *Lepidocyrtus intermixtus* (South Seymour Island).]

STÅL, C.

1859. Hemiptera. Species novae descripsit. Kongliga Svenska Fregatten Eugénies Resa Omkring Jorden, under befäl af C. A. Virgin, åren 1851-3. Zoologi 1, Insecta, pp. 219-298, 2 pls. [*Arma sordida*, *Rhaphigaster viridans*, *Rhopalus lugens*, *Cymus galapagensis*, *Mycterodus productus*, n. spp.]
1860. Orthoptera species novae descripsit. In: Kongliga Svenska Fregatten Eugénies Resa Omkring Jorden . . . Zoologi 1, Insecta, pp. 299-350, 1 pl. [*Acridium melanocerum*, *Oedipoda fusco-irrorata*, n. spp.]

STEPHAN, J.

1937. Schmetterlingsleben auf den Galapagos-Inseln. Entomologische Rundschau, vol. 54, pp. 165-168.

STITZ, H.

1932. [The Norwegian Zoological Expedition to the Galapagos Islands 1925, conducted by Alf Wollbeack. V.] Formicidae. Nyt Magazin Naturvidenskaberne, vol. 71, pp. 367-372, 4 figs. [Reprinted as Meddelelser fra det Zoologiske Museum, Oslo, nr. 31, pp. 367-372, 4 figs. (1932).] [Records for 10 species, including *Cylindromyrmex striatus tibidis*, n. var. (p. 367) (Floreana Island); *Monomorium floreanum*, n. sp. (p. 368) (Floreana Island); *Camponotus macilentus altinota*, n. var. (p. 370) (Floreana Island); *Camponotus macilentus wollebaeki*, n. var. (p. 371) (Floreana Island).]

STONE, A., and W. W. WIRTH

1947. On the marine midges of the genus *Chunio* Haliday (Diptera, Tendipedidae). Proceedings of the Entomological Society of Washington, vol. 49, pp. 201-224, 3 pls. [*Chunio schmitti*, n. sp. (p. 217) (Narborough Island).]

THOMSON, C. G.

1869. Diptera species novae descripsit. In: Kongliga Svenska Fregatten Eugénies Resa Omkring Jorden . . . Zoologi 1, Insecta, pp. 443-614, 1 pl., 1868. [*Tabanus vittiger*, *Chrysochlora fasciata*, *Anthrax lateralis*, *Anthrax curvirostia*, *Anthrax tinctoria*, *Anthrax brachialis*, *Syrphus splendens*, *Baccha facialis*, *Anchinea tibiialis*, *Myobia dasyncnemis*, *Lucilia quadrisignata*, and *Sarcophaga obtusifrons*, all new species.]

TIMMERMAN, G.

1952. The species of the genus *Quadriceps* (Mallophaga) from the Larinae, with some remarks on the systematics and the phylogeny of the gulls. Part 1. The Annals

- and Magazine of Natural History, ser. 12, vol. 5, pp. 209–222, 1 pl., 6 figs. [*Quadriceps crstmayri*, n. sp. (on *Creagrus furcatus*).]
1954. CI.—Studien über Mallophagen aus den Sammlungen des Britischen Museums (Natural History), London. The Annals and Magazine of Natural History, ser. 12, vol. 7, pp. 829–841, 1 pl., 3 figs.
1962. Neue zangenläuse (Mallophaga, Philopteridae) von procellariiformen und charadriiformen wirten. Zeitschrift für Parasitenkunde, vol. 21, pp. 426–436, 5 figs. [*Docophoroides irroratae*, n. sp., p. 435, Galápagos Islands.]
1963. Ein interessanter neuer Kletterfederling vom Galapagos-Albatros. Bonner Zoologische Beiträge, vol. 14, pp. 157–164, 3 figs. [*Docophoroides levequei*, n. sp.]
- TODD, E. L.
1959. The fruit-piercing moths of the genus *Gonodonta* Hübner (Lepidoptera, Noctuidae). Technical Bulletin of the United States Department of Agriculture. no. 1201, pp. 1–52, 12 pls. [*Gonodonta biarmata galapagensis* n. subsp. (p. 20, figs.) (Santa Cruz, San Cristóbal, Floreana islands).]
- TOKUNAGA, MASAOKI
1964. Insects of Micronesia. Diptera. Chironomidae. Bernice P. Bishop Museum. Insects of Micronesia, vol. 12, no. 5, pp. 485–628. [*Galapagomyia* Johnson. A synonym of *Thalassomyia* Schiner (p. 539).]
- TOWNSEND, C. H.
1930. The Astor Expedition to the Galapagos Islands. Bulletin of the New York Zoological Society, vol. 33, pp. 135–172, 2 col. pl.
- TOWNSEND, C. H. T.
1917. Genera of the dipterous tribe Sarcophagini. Proceedings of the Biological Society of Washington, vol. 30, pp. 189–198. [*Prosthetocirca cana*, n. sp. (Narborough and Albemarle islands); *Gigantotheca galapagensis*, n. sp. (Albemarle Island); *Sarothromyiops cinctus*, n. sp. (Culpepper Island).]
1917. New Genera of Amobiinae (Diptera). Insector Inscitae Menstruus, vol. 5, pp. 157–165. [*Opsophytopsis* (n. gen.) *insularis*, n. sp. (p. 163). (Isabela Island).]
1917. New genera and species of American muscoid Diptera. Proceedings of the Biological Society of Washington, vol. 30, pp. 43–50.
- TURNER, R. E.
1916. Notes on fossorial Hymenoptera, XXIV, on the genus *Nitela* Latreille. The Annals and Magazine of Natural History, ser. 8, vol. 18, pp. 343–345.
- UHLER, P. R.
1889. Hemiptera. In: L. O. Howard, Scientific Results of Explorations by the U. S. Fish Commission Steamer Albatross. no. V.—Annotated Catalogue of the Insects collected in 1877–'88. Proceedings of the United States National Museum, vol. 12, p. 194. [*Halobates wuellerstorfi* var., (Chatham Island).]
- VAN DUZEE, E. P.
1933. The Templeton Crocker Expedition of the California Academy of Sciences, 1932. no. 4. Characters of twenty-four new species of Hemiptera from the Galapagos Islands and the coast and islands of Central America and Mexico. Proceedings of the California Academy of Sciences, ser. 4, vol. 21, pp. 25–40.
1933. The Templeton Crocker Expedition of the California Academy of Sciences, 1932. no. 12. The diurnal Lepidoptera of the Expedition. Proceedings of the California Academy of Sciences, ser. 4, vol. 21, pp. 139–146. [Six butterflies and skippers recorded. No new species.]
1937. No. 33. Hemiptera of the Templeton Crocker Expedition to Polynesia in 1934–1935. Proceedings of the California Academy of Sciences, ser. 4, vol. 22, pp. 111–126. [Records of 13 previously described species and *Europiella mella*;

Euthiscia crockeri; *Agallia mera*; *Platymetopius retusus*; and *Jassus infestus*; all new species and all from Santa Cruz Island.]

VAN DUZEE, M. C.

1933. The Templeton Crocker Expedition of the California Academy of Sciences, 1932. no. 7. Dolichopodidae and Phoridae. Proceedings of the California Academy of Sciences, ser. 4, vol. 21, pp. 65-74, 1 pl. [Key to species of *Chrysotus*; new species: *Condylostylus denticauda* (James Island); *Chrysotus brevicornis* (Indefatigable Island); *Chrysotus brevispina* (Indefatigable, Albemarle islands); *Chrysotus latifacies* (Indefatigable Island); *Dohrniphora willowsi* (South Seymour Island); *Dohrniphora crockeri* (South Seymour Island).]

VAN DYKE, E. C.

1953. The Coleoptera of the Galápagos Islands. Occasional Papers of the California Academy of Sciences, no. 22, pp. 1-181. [Comprehensive treatment of known species; many described as new.]

VON HAGEN, V. W.

1940. Ecuador the Unknown. Oxford University Press, New York. 296 pp.

1949. Ecuador and the Galapagos Islands. University of Oklahoma Press, 290 pp.

WALKER, F.

- 1848-1849. List of the specimens of Dipterous Insects in the collection of the British Museum. London. Parts I-IV, 1172 pp. [Describes several species from Galápagos Islands.]

1851. List of the specimens of Homopterous insects in the collection of the British Museum. London, vol. 2, pp. 261-636; vol. 3, pp. 637-907.

1870. Catalogue of the specimens of Dermaptera Saltatoria in the collection of the British Museum, vol. 4, pp. 605-809. [*Acridium literosum*, n. sp. (p. 620) (Galápagos Islands).]

1873. Catalogue of the specimens of Hemiptera Heteroptera in the collection of the British Museum. London. Part VI, pp. 1-210. [*Capsus spoliatus* (Charles, James islands); *Capsus nigrutilus* (Charles Island); *Capsus quadrinotatus* (James Island), var. (Charles Island); all collected by C. Darwin.]

WALLENREN, H. D. J.

1861. Lepidoptera species novae descripsit. In: Kongliga Svenska Fregatten Eugenies Resa Omkring Jorden . . . Zoologi 1, Insecta. pp. 351-390, 2 pls. [*Euchelia gallopagensis*, n. sp.]

WARD, R. A.

1953. Brief Notes on the Mallophaga I. Entomological News, vol. 64, pp. 201-204. [Synonymy of *Docophorus peristictus* Kellogg and Kuwana under *Saemundsonia platygaster* (Denny).]

WARREN, W.

1904. New Thyrididae and Geometridae from the Oriental Region. Novitates Zoologicae, vol. 11, pp. 483-492. [*Perixera impudens*, n. sp., from Gardner, Galápagos Islands (p. 487).]

1905. New American Thyrididae, Uraniidae, and Geometridae [Lepidoptera]. Novitates Zoologicae, vol. 12, pp. 307-379. [*Sericosema lignala* (p. 362) (S.E. Albemarle Island).]

WATERHOUSE, C.

1877. Coleoptera. In: Gunther, Account of the zoological collection made during the visit of the H.M.S. "Peterel" to the Galapagos Islands. VII. Proceedings of the Zoological Society of London, 1877, pp. 77-82. [Includes new records, new species, and a list of known Coleoptera from the various islands.]

WATERHOUSE, G. R.

1845. Descriptions of coleopterous insects collected by Charles Darwin, Esq., in the Galapagos Islands. *Annals of Natural History*, vol. 16, pp. 19-41. [20 new species.]

WHEELER, M. R.

1961. Some *Drosophilidae* (Diptera) from the Galapagos Islands. *Annals of the Entomological Society of America*, vol. 54, pp. 750. [5 species recorded; new records: *Drosophila simulans* (Chatham, Baltra islands); *Drosophila nebulosa* (Chatham Island); *Drosophila* sp. (Santa Cruz Island); *Gitona brasiliensis* (Santa Cruz Island).]

WHEELER, W. M.

1919. The ants of the Galapagos Islands. *Proceedings of the California Academy of Sciences*, ser. 4, vol. 2, pp. 259-310.
1924. The Formicidae of the Harrison Williams Galapagos Expedition. *Zoologica*, vol. 5, pp. 101-122, figs. 19-27, 1 tab. [Records of 18 forms, 2 species and 1 variety described as new; *Monomorium floricola*, a tropicopolitan species, reported for the first time; also, a termite, *Calotermes pacificus*, recorded from South Seymour Island.]
1933. The Templeton Crocker Expedition of the California Academy of Sciences, 1932. no. 6. Formicidae of the Templeton Crocker Expedition. *Proceedings of the California Academy of Sciences*, ser. 4, vol. 21, pp. 57-64. [Notes and new species as follows: *Crematogaster brevispinosa chathamensis* (Chatham Island); *Camponotus planus* var. *hephaestus* (Albemarle Island).]

WILLIAMS, F. X.

1907. [Report of the expedition of the California Academy of Sciences to the Galapagos Islands.] *Entomological News*, vol. 18, pp. 260-261. [Insects taken include at least 5 species each of butterflies and sphinx moths, numerous noctuids, Microlepidoptera, and Orthoptera, few Diptera and Hemiptera, more than 150 species of Coleoptera.]
1911. Expedition of the California Academy of Sciences to the Galápagos Islands, 1905-1906. III. The butterflies and hawk-moths of the Galápagos Islands. *Proceedings of the California Academy of Sciences*, ser. 4, vol. 1, pp. 289-322, 2 pls., 1 col. [General introduction, field notes, and new species. *Eudamus galapagensis*, n. sp. (Chatham and Albemarle islands).]

1926. Expedition of the California Academy of Sciences to the Galápagos Islands, 1905-1906. The bees and aculeate wasps of the Galápagos Islands. *Proceedings of the California Academy of Sciences*, ser. 4, vol. 2, pp. 347-357. [Several records and the following new species: *Photopsis galapagensis* (South Seymour Island); *Odynerus (Padrodynerus) galapagensis* (Chatham Island); new species.]

WILLIAMS, R. C.

1926. Studies in the Neotropical Hesperoidea. Paper I. *Transactions of the American Entomological Society*, vol. 52, pp. 61-87, 3 pls., 28 figs. [*Eudamus galapagensis* Williams (p. 64, pl. 2, fig. 4).]

WILLISTON, S. W.

1889. Diptera. In: Howard, L. O., Scientific results of explorations by the U. S. Fish Commission Steamer Albatross. no. V.—Annotated catalogue of the insects collected in 1877-'88. *Proceedings of the United States National Museum*, vol. 12, pp. 197. [*Culex*.]

WIRTH, W. W.

1951. A revision of the dipterous family Canaceidae. *Occasional Papers of the Bernice*

- P. Bishop Museum, vol. 20, pp. 245-275, 4 figs. [*Canace snodgrassii* Coquillet (= *macateei* Malloch) (p. 260) (Narborough and Albemarle islands); *Canace maritima*, n. sp. (p. 263) (Bartholomew Island).]
1956. New species and records of biting midges ectoparasitic on insects (Diptera, Heleidae). *Annals of the Entomological Society of America*, vol. 49, pp. 356-364. [Synonym of *Ceratopogon galapagensis* (p. 357).]
- WITLACZIL, E.
1896. Die Ausbeute des "Pisani" an *Halobates* während der Erdumseglung 1882-1885. *Wiener Entomologische Zeitung*, vol. 5, pp. 177-182, pp. 231-234. [*Halobates splendens*—Pacific Ocean near the Galápagos Islands; *Halobates wüllerstorffi*, somewhat east of Galápagos Islands, a feather with *Halobates* eggs, off southwest coast of the Galápagos Islands.]
- WOLF, T.
1892. *Geografía y Geología del Ecuador*. Leipzig, F. A. Brockhaus. pp. xii + 671, 12 pls., 47 figs., 2 maps. [Galápagos, part V, pp. 469-493; Insects, very brief, p. 485.]
1895. Die Galapagos-Inseln. *Verhandlungen der Gesellschaft für Erdkunde zu Berlin*, vol. 22, pp. 246-265.